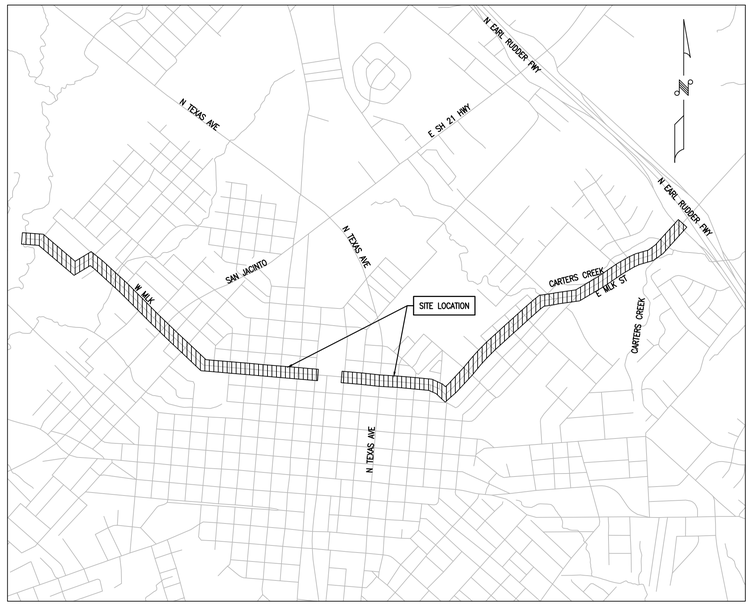
City of Bryan

MLK SIDEWALK AND STREETSCAPING

Phase I & II

City Job No. 350-D8-0828
JC Job No. C0011-005



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CITY OF BRYAN
The Good Life, Texas Style.™

City Council:
SMD 1-Al Saenz
SMD 2-Paul Madison, Sr.
SMD 3-Jason Bienski
(Mayor Pro-Tem)
SMD 4-Ann Horton
SMD 5-Art Hughs
P6AL-Mike Southerland

Mayor:
D. Mark Conlee

City Manager:
David Watkins

City Engineer:
W. Paul Kaspar, P.E.

THIS SEAL WAS AUTHORIZED BY STEVE E. DUNCAN, P.E. 83252 ON 06/03/2009

JONES & CARTER, INC.
ENGINEERS • PLANNERS • SURVEYORS
Texas Board of Professional Engineers Registration No. F-439
700 University Dr. East, Ste. 110C, College Station, Texas 77840 (979) 731-8000

PROJECT SPECIFIC NOTES:

1. CONSTRUCTION STAKING TO BE PROVIDED BY THE CONTRACTOR.
2. NO POTHOLING OF UTILITIES WAS DONE ON SITE.
3. THE PROJECT AREA IS PARTIALLY LOCATED IN A DEFINED 100-YEAR FLOOD PLAIN AS PER F.I.R.M. COMMUNITY PANEL 48041C0133C, BRAZOS COUNTY, TEXAS INCORPORATED AREA EFFECTIVE JULY2, 1992. FLOOD ELEVATIONS NOTED ON DRAWING ARE FROM REFERENCED MAP.
4. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING PROPERTY OWNERS IN ADVANCE OF WORK PERFORMED ON OR ADJACENT TO THEIR PROPERTY.
5. CONTRACTOR TO FIELD VERIFY ACTUAL SLOPES OF EXISTING DRIVEWAYS AND COORDINATE FINAL LENGTHS. ETC.
6. SPECIFIC HEIGHT OF INDIVIDUAL RETAINING WALLS TO BE DIRECTED BY CITY OF BRYAN INSPECTOR.
7. CONTRACTOR TO FURNISH AND INSTALL CEMENT STABILIZED SAND BASE AS DIRECTED BY CITY OF BRYAN INSPECTOR FOR CURB, SIDEWALK, ETC.
8. CONTRACTOR IS ALLOWED TO OPERATE EQUIPMENT ON PARK AREAS, PROPERTY MUST BE RETURNED TO EXISTING STATE.
9. CONTRACTOR TO RETURN ALL DISTURBED AREAS TO THEIR ORIGINAL CONDITION, AS DIRECTED BY, AND TO THE SATISFACTION OF THE CITY OF BRYAN INSPECTOR. THIS WORK WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO THE VARIOUS BID ITEMS.
10. ALL AREAS WHERE EXISTING VEGETATION AND GRASS COVER HAVE BEEN DISTURBED BY CONSTRUCTION SHALL BE ADEQUATELY BLOCK SODDED OR HYDROMULCHED AND WATERED UNTIL GROWTH IS ESTABLISHED. BEGINNING WITHIN FOURTEEN (14) CALENDAR DAYS OF LAST DISTURBANCE
11. BLACK SOD FROM STA 0+00 TO 17+00, HYDROMULCH THE REMAINING.
12. APPROVED EROSION CONTROL MEASURES MUST BE INSTALLED DURING THE ENTIRE TIME THAT EARTH HAS BEEN DISTURBED BY CONSTRUCTION AND SHALL STAY IN PLACE UNTIL ACCEPTABLE VEGETATIVE GROWTH IS ESTABLISHED AFTER CONSTRUCTION IS COMPLETE AND THEN REMOVED BY CONTRACTOR.
13. ALL EROSION CONTROL MEASURES SHOULD BE CLEANED OF SILT AFTER EVERY RAIN.
14. TRAFFIC CONTROL TO BE IN ACCORDANCE TO THE CITY OF BRYAN STANDARDS.
15. CITY TO PROVIDE TEMPORARY CONSTRUCTION EASEMENTS WHERE APPLICABLE
16. PHONE CONTACTS FOR VARIOUS PARTIES WHO WILL BE INVOLVED WITH THIS PROJECT ARE AS FOLLOWS:
JONES & CARTER, INC., STEVE DUNCAN 979-731-8000
CITY OF BRYAN ENGINEERING BARNEY WILLIAMS 979-209-5030,
CITY OF BRYAN WATER/WASTEWATER
JAYSON BARFKNECT 979-209-5900
BTU, 821-5830/5786/5793
ATMOS GAS KIMBERLY WINN 979-774-2506
QUEST COMMUNICATIONS 800-283-4237
UTILIQUEST 281-589-6450 OTHER POWER POLE UTILITIES.
USPS, SHERRY BRIDGES (979) 774-2318

City of Bryan
City Project No. 350-D8-0828

MLK Sidewalk and Streetscaping
Phase 1 & 2

General Location 1

JONES&CARTER INC.
ENGINEERS • PLANNERS • SURVEYORS
Texas Board of Professional Engineers Registration No. F-439
700 University Dr. East, Ste. 110C. College Station, Texas 77840 (979) 731-8000

SCALE:	AS SHOWN	DGN. BY:	SED
DATE:	AS SHOWN	DWN. BY:	CLS
JOB NO.	C0011-005	DWG. NO.	--
SUBMITTED:	--	SURV. BY:	--

STATE OF TEXAS
STEVE E. DUNCAN
83252
LICENSED PROFESSIONAL ENGINEER

THIS SEAL WAS AUTHORIZED BY STEVE E. DUNCAN, P.E. 83252 ON 06/03/2009

SHEET NO.
G1
OF 2

SURVEY GENERAL NOTES:

1. THIS SURVEY WAS BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM CENTRAL ZONE (NAD83), REFERENCED TO CITY OF BRYAN CONTROL MONUMENT SYSTEM, MONUMENTS GPS-35 AND GPS-16. THE SURFACE COORDINATE TO GRID COORDINATE SCALE FACTOR FOR THIS PROJECT IS: 0.99988635.

2. THIS IS NOT A BOUNDARY OR RIGHT-OF-WAY SURVEY.STREET RIGHTS-OF-WAY SHOWN ARE BASED ON RECORD INSTRUMENTS, PLATS, RIGHT-OF-WAY INFORMATION PROVIDED BY THE CITY OF BRYAN, AND FOUND MONUMENTATION BASED ON A LIMITED SEARCH UNDER THE SCOPE OF THIS PROJECT. THE RIGHTS-OF-WAY SHOWN SHOULD BE USED FOR ORIENTATION ONLY. OUTSIDE OF THE INFORMATION NOTED, NO ADDITIONAL RESEARCH OF THE PUBLIC RECORDS OF BRAZOS COUNTY, TEXAS REGARDING FOR EASEMENTS OR ENCUMBRANCES WAS PERFORMED BY JONES & CARTER, INC.

3. THIS SURVEY DOES NOT PROVIDE ANY DETERMINATION CONCERNING WETLANDS, FAULT LINES, TOXIC WASTE OR ANY OTHER ENVIRONMENTAL ISSUES SUCH MATTERS SHOULD BE DIRECTED BY THE CLIENT OR PROSPECTIVE PURCHASER TO AN EXPERT CONSULTANT.

4. ACCORDING TO COMMUNITY PANEL NO. 48041C0133 C OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE RATE MAPS FOR THE CITY OF BRYAN, BRAZOS COUNTY, TEXAS UNINCORPORATED AREA, EFFECTIVE DATE JULY 2, 1992, A PORTION OF THE SUBJECT TRACT IS SITUATED WITHIN ZONE "AE", DEFINED AS BASE FLOOD ELEVATIONS DETERMINED, AND WITHIN SHADED ZONE "X", DEFINED AS AREAS OF 500 YEAR FLOOD; AREAS OF 100-YEAR FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 100-YEAR FLOOD AND THE REMAINDER OF THE SUBJECT TRACT IS SITUATED WITHIN: UNSHADED ZONE 'X'; DEFINED AS AREAS DETERMINED TO BE OUTSIDE THE 100-YEAR FLOOD PLAIN. THIS FLOOD STATEMENT DOES NOT IMPLY THAT THE PROPERTY OR STRUCTURES THEREON WILL BE FREE FROM FLOODING OR FLOOD DAMAGE. ON RARE OCCASIONS FLOODS CAN AND WILL OCCUR AND FLOOD HEIGHTS MAY BE INCREASED BY MAN-MADE OR NATURAL CAUSES. THIS FLOOD STATEMENT SHALL NOT CREATE LIABILITY ON THE PART OF THE SURVEYOR.

5. THE SURVEYOR HAS NOT BEEN PROVIDED WITH CONSTRUCTION PLANS SHOWING THE LOCATION OF UNDERGROUND UTILITIES. UNDERGROUND UTILITIES MAY EXIST WHICH ARE NOT SHOWN HEREON.

6. VISIBLE IMPROVEMENTS/UTILITIES WERE LOCATED WITH THIS SURVEY; NO SUBSURFACE PROBING, EXCAVATION OR EXPLORATION WAS PERFORMED FOR THIS SURVEY.DIG TESS WAS NOTIFIED AND ANY MARKINGS/LOCATIONS OF UNDERGROUND UTILITIES AS A RESULT OF THAT NOTIFICATION IS SHOWN.THE SURVEYOR MAKES NO GUARANTEES THAT ALL UNDERGROUND UTILITY COMPANIES RESPONDED OR COMPLETELY MARKED THEIR FACILITIES.

7. NO SURVEY WORK WAS PERFORMED ON PROPERTIES LOCATED BETWEEN NORTH TABOR AVENUE AND THE PROJECT LIMITS, NORTHWEST OF KEMP ELEMENTARY SCHOOL.

8. SURVEY WORK WAS PERFORMED ON PROPERTIES LOCATED BETWEEN NORTH TABOR AVENUE, AND WEST EARL RUDDER FREEWAY.

9. A SURVEY WAS NOT PERFORMED FOR ALL AREAS OF THIS PROJECT. THE SIDEWALK SHOULD MATCH THE EXISTING GRADE AS CLOSELY AS POSSIBLE.

GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY AND SAFETY PROVISIONS REQUIRED TO PROTECT INDIVIDUALS, EQUIPMENT, MATERIALS, AND WORKMANSHIP NECESSARY FOR THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STORAGE OF MATERIALS IN A SAFE AND WORKMANLIKE MANNER TO PREVENT INJURIES, DURING AND AFTER WORKING HOURS, UNTIL PROJECT COMPLETION.

2. THE CONTRACTOR SHALL ADVISE THE ENGINEER OF ANY APPARENT OR SPECIAL NEEDS TO COMPLETE THE SCOPE OF WORK INCLUDED IN THIS PROJECT. THESE MAY INCLUDE THE NEED FOR OWNER PROVIDED SERVICES SUCH AS WATER, STAFF AVAILABILITY, ETC.

3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF WORK.

4. THE CONTRACTOR SHALL PROVIDE A DETAILED WRITTEN SCHEDULE WHICH OUTLINES A LOGICAL, ORDERLY PLAN FOR COMPLETING THE WORK REQUIRED FOR THIS PROJECT. THIS SCHEDULE SHALL SPECIFY DATES AND TIME INCREMENTS FOR THE VARIOUS ITEMS OF WORK TO MEET THE CONTRACT PERIOD. THROUGHOUT THE DURATION OF THE CONTRACT PERIOD, THE CONTRACTOR SHALL MAINTAIN CLOSE COORDINATION WITH THE OWNER AND ENGINEER REGARDING SCHEDULING AND PROGRESS OF THE PROJECT.

5. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO MAINTAIN ACCESS DURING THE CONSTRUCTION PERIOD. SCHEDULING OF ACTIVITIES SHOULD EMPHASIZE ACCESSIBILITY TO THE PROJECT SITE. EXTENDED PERIODS OF RESTRICTED ACCESS MUST BE LIMITED.

6. THE CONTRACTOR SHALL DISPOSE OF ALL EXCESS EXCAVATION, CONCRETE AND OTHER EXCAVATED MATERIALS OFF SITE IN A LEGAL MANNER.

7. THE CONTRACTOR SHALL PERFORM ALL CLEARING AND GRUBBING OPERATIONS REQUIRED TO INSTALL THE IMPROVEMENTS COVERED UNDER THIS PROJECT AND THE COSTS THEREOF SHALL BE INCLUDED IN THE UNIT PRICES OF APPROPRIATE ITEMS IN THE PROPOSAL.

8. CONTRACTOR SHALL PROTECT EXISTING MONUMENTS, YARDS, PRIVATE UTILITIES, DRIVES, CURBS, MAIL BOXES, SIGNS, IMPROVEMENTS, CULVERTS, AND OWNER'S FACILITIES FROM DAMAGE DURING CONSTRUCTION. DAMAGE DONE TO THESE ITEMS SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL MOVE AND REPLACE SUCH MOVABLE ITEMS AS MAIL BOXES, TRAFFIC CONTROL, BUSINESS SIGNS, AND STREET SIGNS AS NECESSARY FOR CONSTRUCTION. FENCES OR STRUCTURES WHICH REQUIRE DISMANTLING OR REMOVAL SHALL BE RECONSTRUCTED OR REPLACED TO EQUAL OR BETTER THAN ORIGINAL CONDITION (SUBSIDIARY).

9. AT THE END OF ALL CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL RESTORE EXISTING FACILITY (I.E. PROPERTY) EQUAL TO OR BETTER THAN EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. CLEAN-UP ACTIVITIES SHALL BE MAINTAINED THROUGHOUT THE CONTRACT PERIOD.

10. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO INSURE THAT SURFACE DRAINAGE IS NOT IMPEDED BY CONSTRUCTION WORK.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND PROTECTION OF CONSTRUCTION ACTIVITIES DURING THE CONTRACT PERIOD. THIS SHALL INCLUDE ANY EROSION CONTROL MEASURES AND REGRADING NECESSARY TO ACHIEVE THE LINES AND GRADES SET FORTH BY THESE PLANS.

11. SIGNING, BARRICADING AND LIGHTING FOR CONSTRUCTION WITHIN ROAD RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND OTHER APPLICABLE STATE OR LOCAL STANDARDS. SIGNS, BARRICADES AND LIGHTS SHALL BE KEPT CLEAN, OPERATIONAL AND PROPERLY POSITIONED TO ASSURE PROPER SAFETY PRECAUTIONS.

12. THE CONTRACTOR SHOULD BE AWARE THAT THERE ARE OVERHEAD AND UNDERGROUND ELECTRICAL, TELEPHONE, ETC. LINES WITHIN THE PROJECT SITE. THE CONTRACTOR AND HIS PERSONNEL SHALL EXERCISE CARE AROUND THESE LINES TO PREVENT DAMAGE TO LINES AND INJURY TO THE PERSONNEL. ANY DAMAGE SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.

13. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES WITH FACILITIES IN THE PROJECT LOCATION NOT LESS THAN 48 HOURS PRIOR TO CONSTRUCTION ACTIVITIES IN THE RESPECTIVE WORK AREAS. ADEQUATE PROVISIONS FOR PROTECTING EXISTING FACILITIES SHOULD BE EMPLOYED.

14. ALL EXISTING UTILITY LINES, DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

15. THE LOADING AND UNLOADING OF ALL MATERIALS AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PRACTICES AND SHALL AT ALL TIMES BE PERFORMED WITH CARE TO AVOID ANY DAMAGE TO THE MATERIAL. THE CONTRACTOR SHALL LOCATE AND PROVIDE THE NECESSARY STORAGE AREAS FOR MATERIALS AND EQUIPMENT.

16. ALL MATERIALS AND EQUIPMENT SHALL BE BOTH FURNISHED AND INSTALLED UNLESS OTHERWISE NOTED.

17. CONTRACTOR SHALL PROVIDE SHEETING, SHORING AND BRACING AS NECESSARY TO PROTECT WORKMEN AND EXISTING UTILITIES DURING ALL PHASES OF CONSTRUCTION AS PER O.S.H.A. REQUIREMENTS.

18. EXCAVATIONS, DISTURBED AREAS, AND TRENCH LINES SHALL BE FINISH GRADED AND HYDROMULCH SEEDED AFTER COMPLETION.

19. NSP = NO SEPARATE PAY ITEM IN THE BID PROPOSAL. ITEMS SHALL BE CONSIDERED SUBSIDIARY TO THE LISTED PAY ITEMS. ALL MATERIAL AND LABOR NOT IDENTIFIED AS A SEPARATE BID ITEM SHALL BE CONSIDERED SUBSIDIARY TO THE ITEM IN WHICH IT IS USED.

20. ALL WORK SHALL COMPLY WITH CITY AND BCS UNIFIED DESIGN STANDARDS.

BENCHMARK NOTES:

1. ALL ELEVATIONS ARE BASED ON THE CITY OF BRYAN CONTROL MONUMENT SYSTEM, GPS MONUMENT #35, ELEVATION=331.46 FEET (NAVD88 DATUM).

2. TBM #1 IS A RR SPIKE SET IN 24" OAK TREE IN THE NORTHWEST RIGHT-OF-WAY OF EAST MLK STREET, APPROX. 200 FEET SOUTHWEST FROM THE SOUTHWEST EDGE OF EARL RUDDER FREEWAY, AND APPROX. 12 FEET NORTHEAST OF CONCRETE DRIVEWAY TO THE CHURCH AT 2240 EAST MLK. ELEVATION 309.05 FEET.

3. TBM #2 IS A RR SPIKE IN A POWER POLE IN THE NORTHWEST RIGHT-OF-WAY OF EAST MLK STREET, APPROX. 275 FEET NORTHEAST OF THE CENTERLINE OF DUMAS STREET. ELEVATION 308.48 FEET

4. TBM #3 IS A RR SPIKE IN A POWER POLE IN THE NORTHWEST RIGHT-OF-WAY OF EAST MLK STREET APPROX. 315 FEET NORTHEAST OF THE INTERSECTION OF DANSBY STREET AND EAST MLK STREET. ELEVATION 310.54 FEET.

5. TBM #4 IS A RR SPIKE IN A POWER POLE IN THE NORTHWEST CORNER OF THE INTERSECTION OF WACO STREET AND EAST MLK STREET, APPROX. 61 FEET FROM THE EDGE OF PAVING ON MLK AND 26 FEET FROM THE BACK OF CURB ON WACO STREET. ELEVATION 314.78 FEET

5. TBM #5 IS A RR SPIKE IN A POWER POLE IN THE NORTHWEST CORNER OF THE INTERSECTION OF MIDDLE STREET AND EAST MLK STREET. ELEVATION 327.43 FEET

6. TBM #6 IS A RR SPIKE IN A POWER POLE 5.2 FEET FROM THE BACK OF CURB ON THE NORTHWEST SIDE OF EAST MLK STREET IN THE SOUTHWEST CORNER OF THE INTERSECTION OF CAROLINE STREET (NOT BUILT) AND EAST MLK STREET. ELEVATION 334.43 FEET.

7. TBM #7 IS A RR SPIKE IN A POWER POLE ON THE NORTH SIDE OF MLK STREET AT THE INTERSECTION OF EAST MLK STREET AND PIERCE STREET, APPROX. 9 FEET FROM THE BACK OF CURB. ELEVATION 338.25 FEET.

8. TBM 8 IS A RR SPIKE IN A POWER POLE IN HE NORTH RIGHT-OF-WAY OF EAST MLK STREET, APPROX. 91 FEET WEST OF THE OF THE CENTERLINE OF NORTH HOUSTON STREET, AND APPROX. 6.5 FEET NORTH OF THE BACK OF CURB. ELEVATION 357.08 FEET.

9. TBM 9 IS A RR SPIKE IN A POWER POLE ON THE SOUTHWEST CORNER OF TABOR AVENUE AND EAST MLK STREET APPROX. 47.50 FEET WEST OF THE CENTERLINE OF TABOR AVENUE. ELEVATION 359.49 FEET.

City of Bryan
City Project No. 350-D8-0828

MLK Sidewalk and Streetscaping
Phase 1 & 2

General Location 2

JONES & CARTER, INC.
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Texas Board of Professional Engineers Registration No. F-439
700 University Dr. East, Ste. 110C. College Station, Texas 77840 (979) 731-8000

SCALE: AS SHOWN DGN. BY: SED
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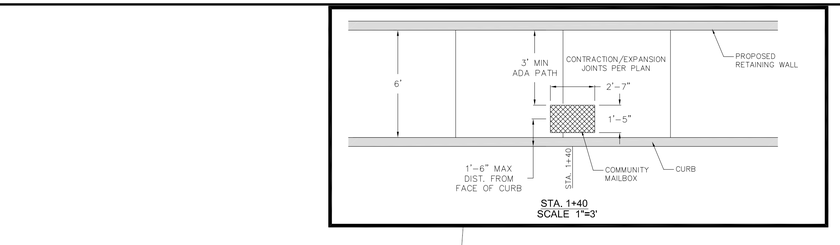
JOB NO. C0011-005 DWG. NO. --
SUBMITTED: -- SURV. BY: --

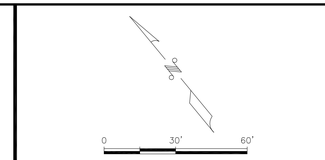
STATE OF TEXAS
STEVE E. DUNCAN
83252
LICENSED PROFESSIONAL ENGINEER

THIS SEAL WAS AUTHORIZED BY STEVE E. DUNCAN, P.E. 83252 ON 06/03/2009

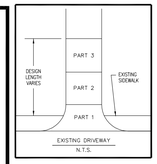
SHEET NO.
G2
OF 2

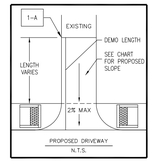


STA. 1+40
SCALE 1"=3'



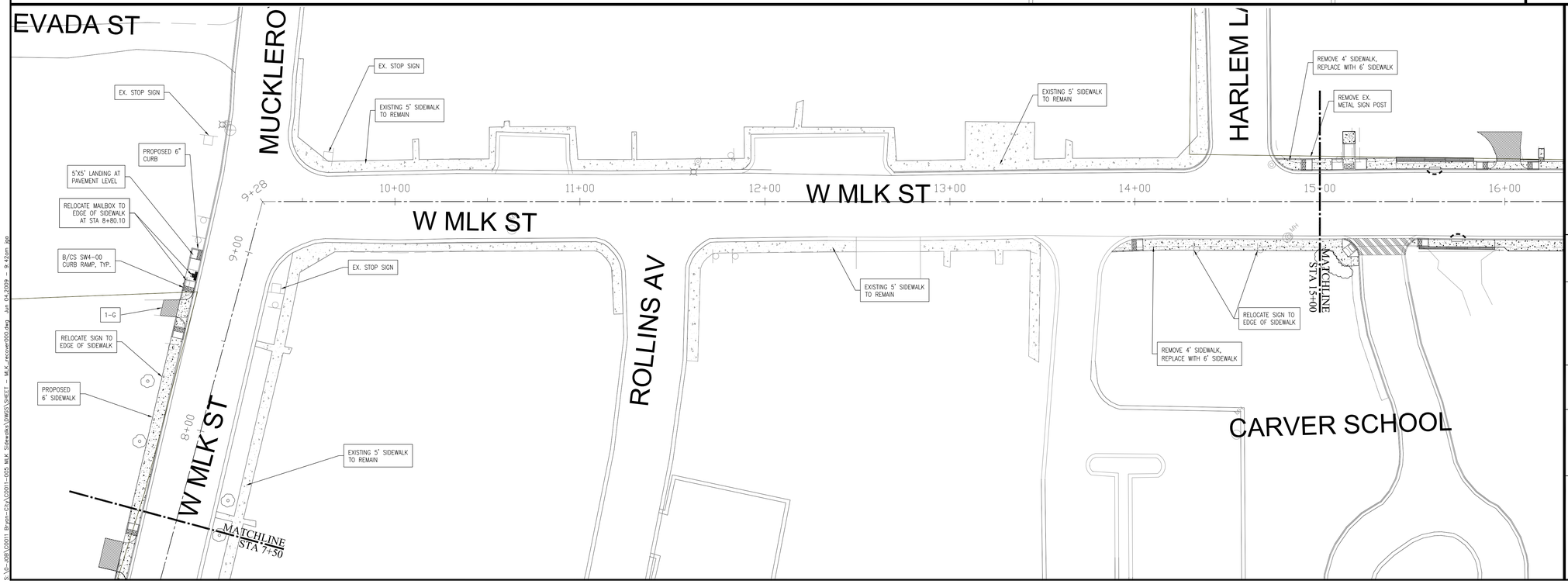
EXISTING PRIVATE DRIVEWAY (SEE EXISTING DRIVEWAY DETAIL)						
DRIVEWAY NO.	PART 1		PART 2		PART 3	
	SLOPE(%)	LENGTH(FT)	SLOPE(%)	LENGTH(FT)	SLOPE(%)	LENGTH(FT)
1-A	22.70%	6	15.30%	13	2.00%	
1-B	9.80%	13	9.80%			
1-C	12.40%	8	4.50%			
1-D	11.70%	18.7	0.12%			
1-E	10.60%	12.1	10.60%			
1-F	1.60%					
1-G	9.00%	10	4.00%			

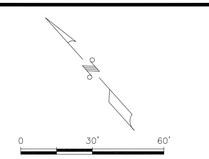




PROPOSED PRIVATE DRIVEWAY		
DRIVEWAY NO.	PROPOSED LENGTH	SLOPE %
1-A	25	17.37%
1-B	15	15.00%
1-C	14	14.21%
1-D	20	14.68%
1-E	25	13.32%
1-F	6.1	1.60%
1-G	15	10.87%

CONTRACTOR TO FIELD VERIFY EXISTING DRIVEWAY GRADES W/ CITY INSPECTOR PRIOR TO CONSTRUCTION





City of Bryan
City Project No. 350-D8-0828

MLK Sidewalk and Streetscaping
Phase 1 & 2

0+00–15+00

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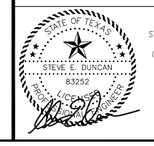
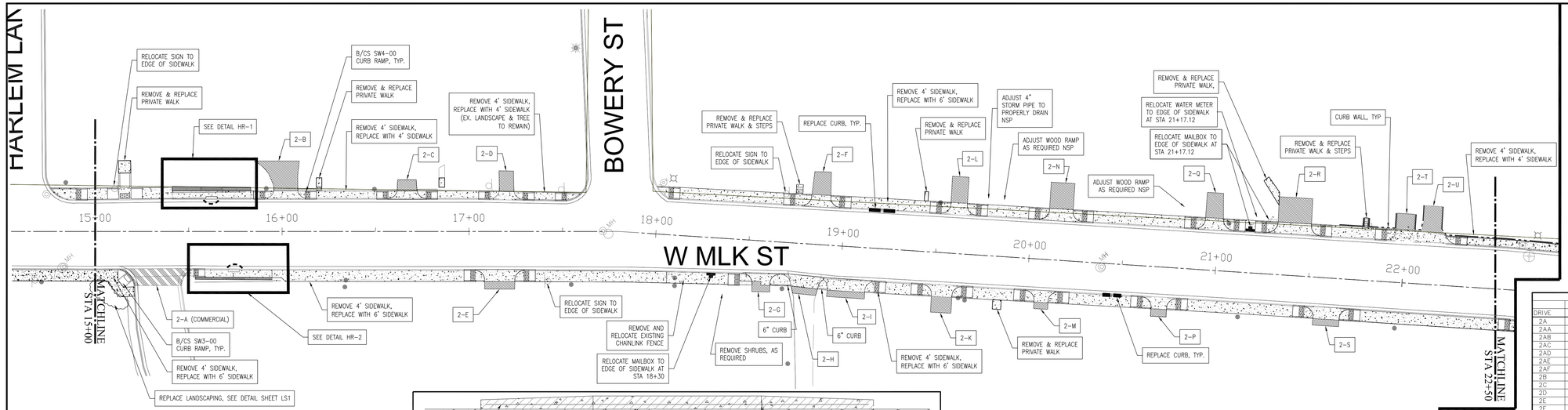
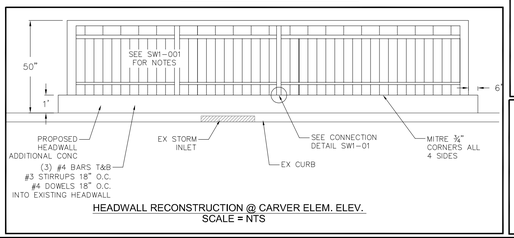


THIS SEAL WAS AUTHORIZED BY STEVE E. DUNCAN, P.E. 83252 ON 06/03/2009

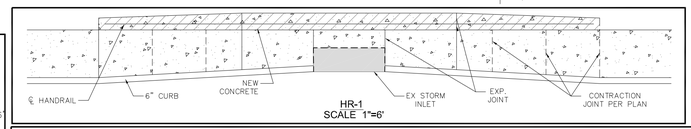
SHEET NO.
C1
OF 10

S:\C--JOB\C0011 Bryan-City\C0011-005 MLK Sidewalks\Dwgs\SHEET - MLK_recover000.dwg Jun 04,2009 - 9:42am RP2

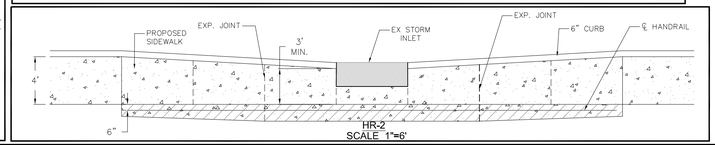




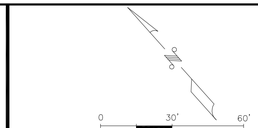
HEADWALL RECONSTRUCTION @ CARVER ELEM. ELEV.
SCALE = NTS



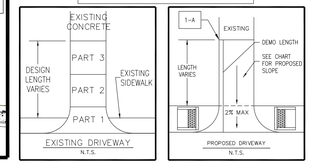
HR-1
SCALE 1"=6'



HR-2
SCALE 1"=6'

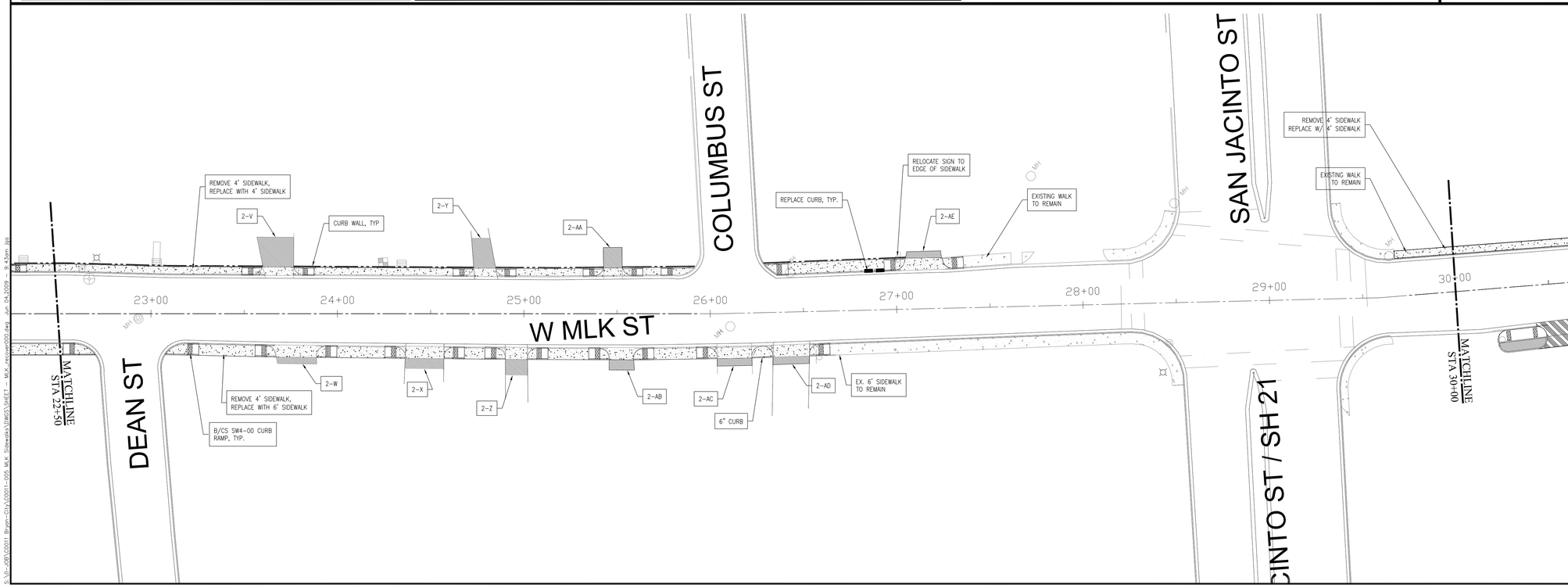


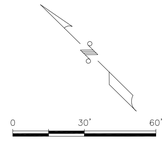
CONTRACTOR TO FIELD VERIFY EXISTING DRIVEWAY GRADES W/ CITY INSPECTOR PRIOR TO CONSTRUCTION



DRIVE	EXISTING PART 1 SLOPE (%)	PART 1 LENGTH	PART 2 SLOPE (%)	PROPOSED Demo Length	Proposed slope
2A	3.80%	10		9	7.40%
2AA	17.30%	4	8.40%	15	13.92%
2AB	16.30%	4	3.20%	12	13.02%
2AC	14.80%	4	2.10%	10	14.81%
2AD	4.80%	13.5	0.50%	10	12.75%
2AE	7.10%	4	11.00%	10	14.41%
2AF	3.00%	6	9.70%	10	8.14%
2B	−3.40%	7.8	−5.70%	20	−7.72%
2C	9.10%	4	0.40%	10	6.66%
2D	19.20%	4	6.10%	15	14.55%
2E	14.20%	3	1.30%	10	9.83%
2F	9.60%	19.76	8.20%	20	12.82%
2G	5.60%			10	11.00%
2I	5.70%			10	11.25%

DRIVE	EXISTING PART 1 SLOPE (%)	PART 1 LENGTH	PART 2 SLOPE (%)	PART 2 LENGTH	PART 3 SLOPE (%)	PROPOSED Demo Length	Proposed slope
2J	9.40%	9	5.20%	3	0.80%	15	10.03%
2K	9.20%	4	8.30%			15	13.56%
2L	23.60%	4	8.30%			20	15.25%
2M	12.70%	4	1.80%			10	14.11%
2N	14.50%	13.5	2.20%			20	14.02%
2P	15.00%	4	0.50%			10	13.64%
2Q	15.00%	10	7.40%	8	5.30%	20	14.76%
2R	9.90%	20	5.70%			20	13.22%
2S	16.10%	4	0.80%			10	14.11%
2T	16.10%	10	4.50%			15	15.82%
2U	18.00%	10	8.90%			20	16.22%
2V	12.40%	15	4.80%			20	12.57%
2W	6.00%	12	0.80%			10	14.57%
2X	8.50%	12	1.80%			12	14.95%
2Y	10.60%	15	4.50%			20	10.81%
2Z	10.00%	12	3.10%			15	12.99%





City of Bryan
City Project No. 350-D8-0828

MLK Sidewalk and Streetscaping
Phase 1 & 2

15+00–30+00

JONES & CARTER, INC.
ENGINEERS • PLANNERS • SURVEYORS
Texas Board of Professional Engineers Registration No. F-439
700 University Dr, East, Ste. 110C. College Station, Texas 77840 (979) 731-8000

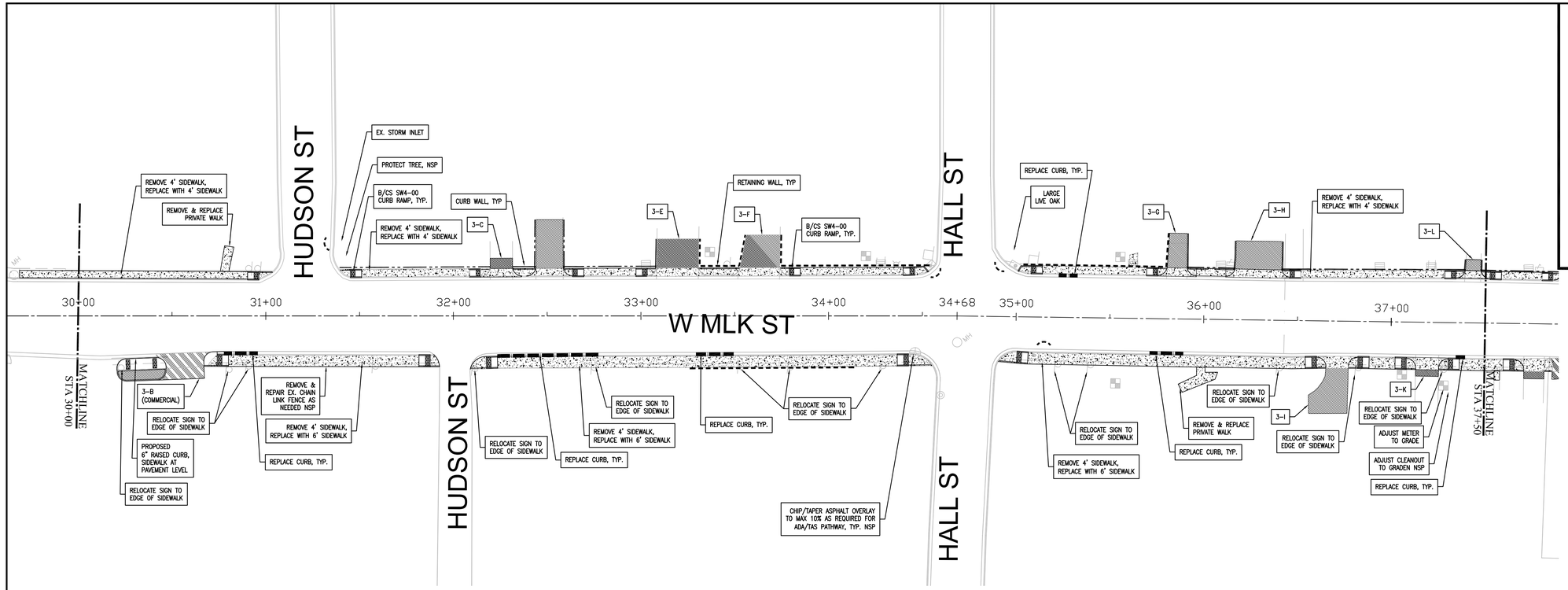
SCALE: AS SHOWN DGN. BY: SED
DATE: AS SHOWN DWN. BY: JGA
JOB NO. C0011-005 DWG. NO. --
SUBMITTED: -- SURV. BY: --

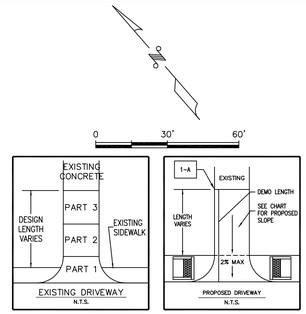
STATE OF TEXAS
STEVE E. DUNCAN
83252
PROFESSIONAL ENGINEER

THIS SEAL WAS AUTHORIZED BY STEVE E. DUNCAN, P.E. 83252 ON 06/03/2009

SHEET NO.
C2
OF 10

S:\0--JOB\C0011 Bryan--City\C0011-005 MLK Sidewalks\DWGS\SHEET - MLK_recover000.dwg Jun 04,2009 - 9:43am jgo



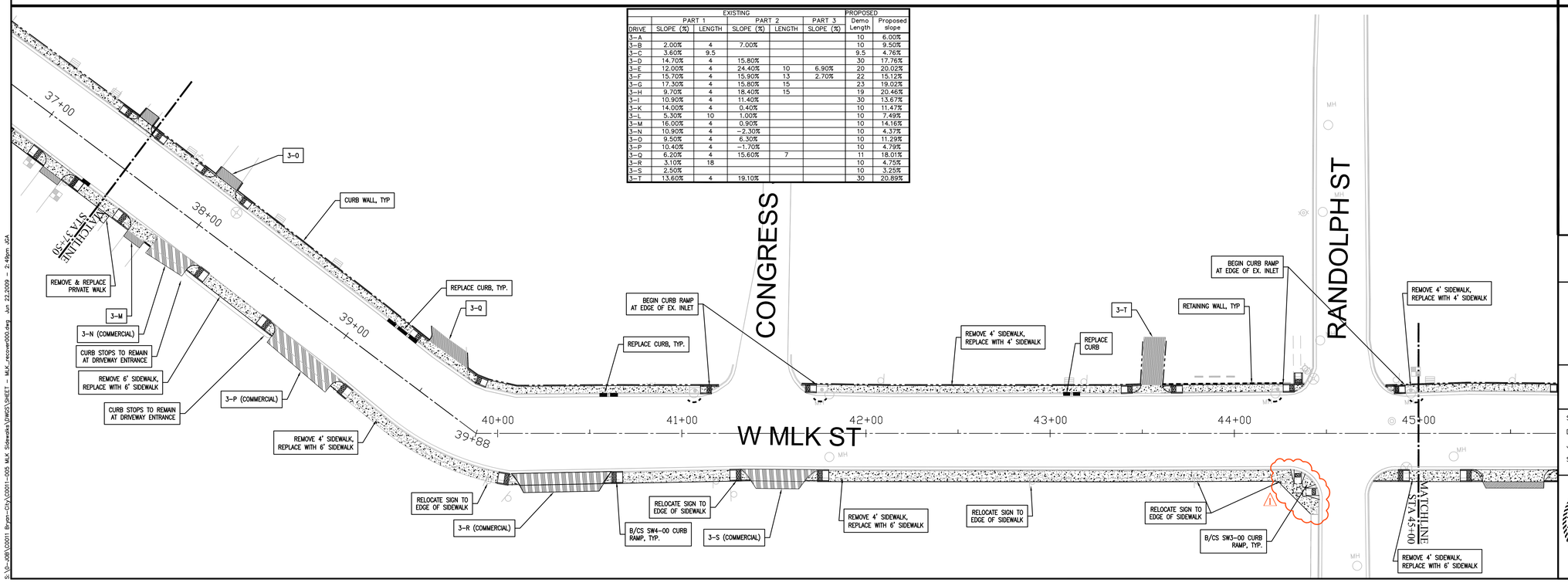


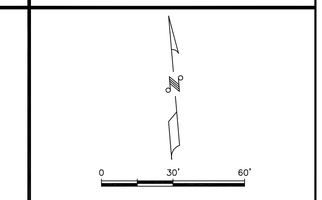
CONTRACTOR TO FIELD VERIFY EXISTING DRIVEWAY GRADES W/ CITY INSPECTOR PRIOR TO CONSTRUCTION

1 06/03/2009 ORIGINAL DESIGN

1 06/22/2009 CURB RAMP REDESIGN

	EXISTING						PROPOSED	
	PART 1		PART 2		PART 3		Demo	Proposed
DRIVE	SLOPE (%)	LENGTH	SLOPE (%)	LENGTH	SLOPE (%)		Length	slope
3-A							10	6.00%
3-B	2.00%	4	7.00%				10	9.50%
3-C	3.60%	9.5					9.5	4.76%
3-D	14.70%	4	15.80%				30	17.76%
3-E	12.00%	4	24.40%	10	6.90%		20	20.02%
3-F	15.70%	4	15.90%	13	2.70%		22	15.12%
3-G	17.30%	4	15.80%	15			23	19.02%
3-H	9.70%	4	18.40%	15			19	20.46%
3-I	10.90%	4	11.40%				30	13.67%
3-K	14.00%	4	0.40%				10	11.47%
3-L	5.30%	10	1.00%				10	7.49%
3-M	16.00%	4	0.90%				10	14.16%
3-N	10.90%	4	-2.30%				10	4.37%
3-O	9.50%	4	6.30%				10	11.29%
3-P	10.40%	4	-1.70%				10	4.79%
3-Q	6.20%	4	15.60%	7			11	18.01%
3-R	3.10%	18					10	4.75%
3-S	2.50%	4					10	3.25%
3-T	13.60%	4	19.10%				30	20.89%





City of Bryan
City Project No. 350-D8-0828

MLK Sidewalk and Streetscaping
Phase 1 & 2

30+00-45+00

JONES & CARTER, INC.
ENGINEERS • PLANNERS • SURVEYORS
Texas Board of Professional Engineers Registration No. F-439
700 University Dr, East, Ste. 110C. College Station, Texas 77840 (979) 731-8000

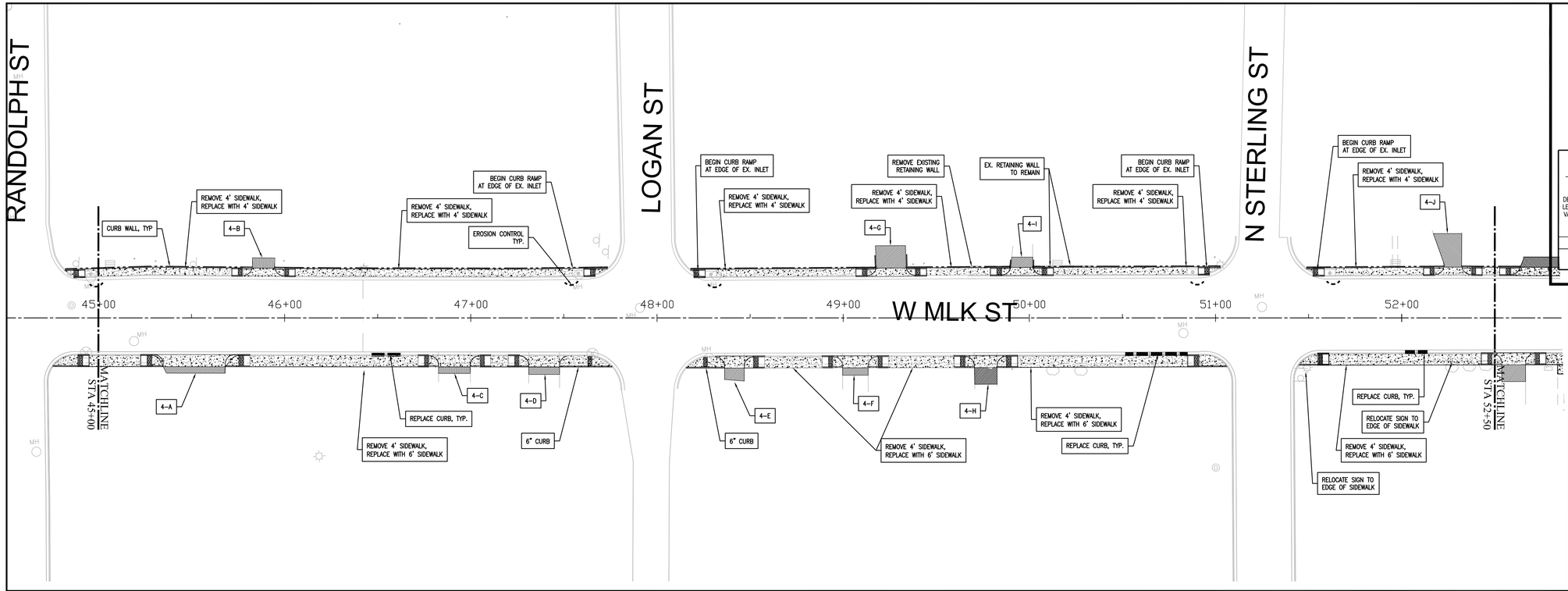
SCALE: AS SHOWN DGN. BY: SED
DATE: AS SHOWN DWN. BY: JGA
JOB NO. C0011-005 DWG. NO. --
SUBMITTED: -- SURV. BY: --

STATE OF TEXAS
STEVE E. DUNCAN
83252
LICENSED PROFESSIONAL ENGINEER

THIS SEAL WAS AUTHORIZED BY STEVE E. DUNCAN, P.E. 83252 ON 06/22/2009

SHEET NO.
C3
OF 10

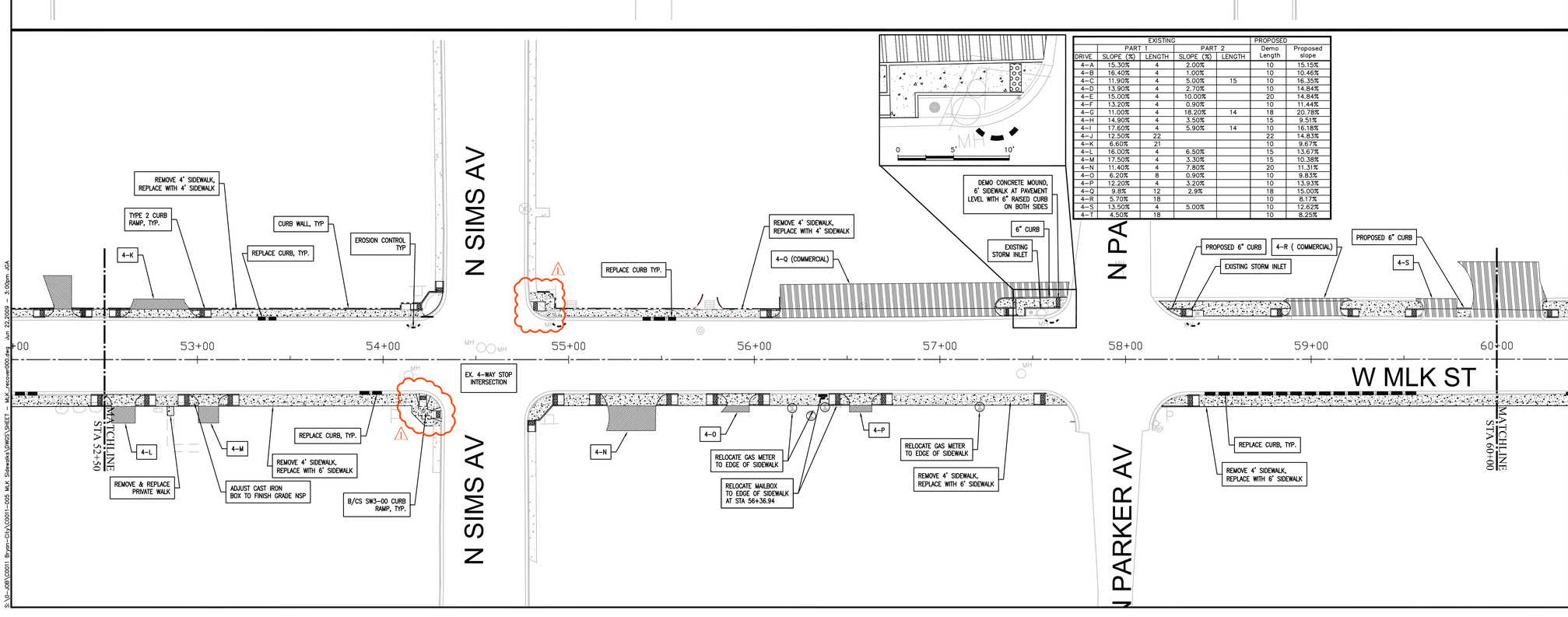
S:\0-JOB\C0011 Bryan-City\C0011-005 MLK Sidewalks\DWGS\SHEET - MLK_recover000.dwg Jun 23,2009 - 2:49pm JGA



CONTRACTOR TO FIELD VERIFY EXISTING DRIVEWAY GRADES W/ CITY INSPECTOR PRIOR TO CONSTRUCTION

1 06/03/2009 ORIGINAL DESIGN

1 06/22/2009 CURB RAMP REDESIGN



	EXISTING				PROPOSED	
	PART 1		PART 2		Demo	Proposed
DRIVE	SLOPE (%)	LENGTH	SLOPE (%)	LENGTH	Length	slope
4-A	15.30%	4	2.00%		10	15.15%
4-B	16.40%	4	1.00%		10	10.46%
4-C	11.90%	4	5.00%	15	10	16.35%
4-D	13.90%	4	2.70%		10	14.84%
4-E	15.00%	4	10.00%		20	14.84%
4-F	13.20%	4	0.90%		10	11.44%
4-G	11.00%	4	18.20%	14	18	20.78%
4-H	14.90%	4	3.50%		15	9.51%
4-I	17.60%	4	5.90%	14	10	16.18%
4-J	12.50%	22			22	14.83%
4-K	6.60%	21			10	9.67%
4-L	16.00%	4	6.50%		15	13.67%
4-M	17.50%	4	3.30%		15	10.38%
4-N	11.40%	4	7.80%		20	11.31%
4-O	6.20%	8	0.90%		10	9.83%
4-P	12.20%	4	3.20%		10	13.93%
4-Q	9.8%	12	2.9%		18	15.00%
4-R	5.70%	18			10	8.17%
4-S	13.50%	4	5.00%		10	12.62%
4-T	4.50%	18			10	8.25%

0
30'
60'

City of Bryan
City Project No. 350-08-0828

MLK Sidewalk and Streetscaping
Phase 1 & 2

45+00-60+00

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Texas Board of Professional Engineers Registration No. F-439
700 University Dr, East, Ste. 110C, College Station, Texas 77840 (979) 731-8000

SCALE: AS SHOWN DGN. BY: SED
DATE: AS SHOWN DWN. BY: JGA
JOB NO. C0011-005 DWG. NO. --
SUBMITTED: -- SURV. BY: --

STATE OF TEXAS
STEVE E. DUNCAN
83252
LICENSED PROFESSIONAL ENGINEER

THIS SEAL WAS AUTHORIZED BY STEVE E. DUNCAN, P.E. 83252 ON 06/22/2009

SHEET NO.
C4
OF 10

S:\0-JOB\C0011 Bryan-City\C0011-005 MLK Sidewalks\DWGS\SHEET - MLK_recover000.dwg Jun 23,2009 - 3:00pm JGA

DRIVE	EXISTING PART 1 SLOPE (%)	EXISTING PART 1 LENGTH	EXISTING PART 2 SLOPE (%)	EXISTING PART 2 LENGTH	PROPOSED Demo Length	PROPOSED Proposed slope
5-A	15.00%	0			30	18.25%
5-B	4.50%	18			10	8.25%
5-C	10.80%	5	0.52%	19.3	10	11.07%
5-D	14.67%	4.5	0.63%	16	10	14.19%
5-E	7.75%	4	11.64%	11	15	10.55%
5-F	13.25%	4	-0.17%	6	10	9.88%
5-G	3.50%	9.7	2.50%	6.7	10	5.67%
5-H	6.70%	19.65	7.00%	10.85	15	9.68%

City of Bryan
City Project No. 350-D8-0828

MLK Sidewalk and Streetscaping
Phase 1 & 2

60+00–75+00

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Texas Board of Professional Engineers Registration No. F-439
700 University Dr, East, Ste. 110C. College Station, Texas 77840 (979) 731-8000

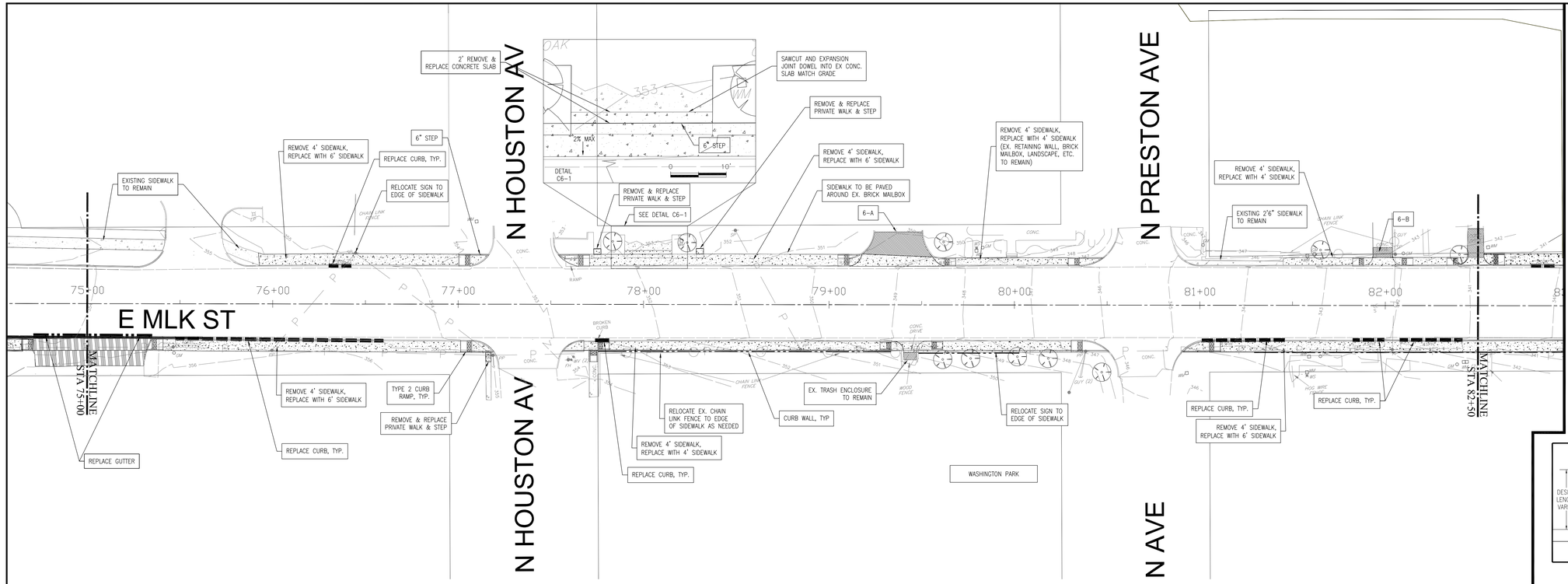
SCALE: AS SHOWN DGN. BY: SED
DATE: AS SHOWN DWN. BY: JGA
JOB NO. C0011-005 DWG. NO. --
SUBMITTED: -- SURV. BY: --

STATE OF TEXAS
STEVE E. DUNCAN
83252
REGISTERED ENGINEER

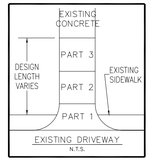
THIS SEAL WAS AUTHORIZED BY STEVE E. DUNCAN, P.E. 83252 ON 06/03/2009

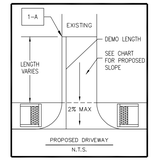
SHEET NO.
C5
OF 10

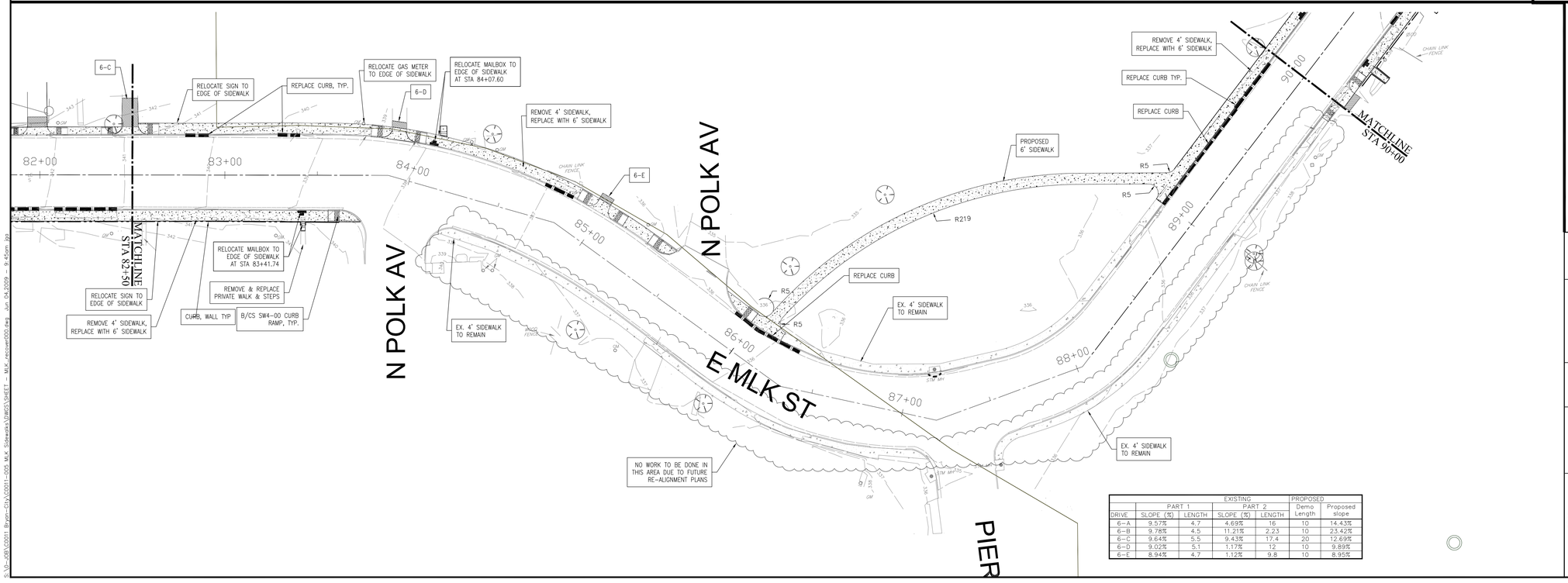
S:\0-JOB\C0011 Bryan - City\C0011-005 MLK Sidewalk\DWG\SHEET - MLK_Alignment05.dwg Jun 04,2009 - 9:45am RP



CONTRACTOR TO FIELD VERIFY EXISTING DRIVEWAY GRADES W/ CITY INSPECTOR PRIOR TO CONSTRUCTION







	EXISTING				PROPOSED	
	PART 1		PART 2			
DRIVE	SLOPE (%)	LENGTH	SLOPE (%)	LENGTH	Demo Length	Proposed slope
6-A	9.57%	4.7	4.69%	16	10	14.43%
6-B	9.78%	4.5	11.21%	2.23	10	23.42%
6-C	9.64%	5.5	9.43%	17.4	20	12.69%
6-D	9.02%	5.1	1.17%	12	10	9.89%
6-E	8.94%	4.7	1.12%	9.8	10	8.95%

City of Bryan
City Project No. 350-D8-0828

MLK Sidewalk and Streetscaping
Phase 1 & 2

75+00–90+00

JONES & CARTER, INC.
ENGINEERS • PLANNERS • SURVEYORS
Texas Board of Professional Engineers Registration No. F-439
700 University Dr. East, Ste. 110C. College Station, Texas 77840 (979) 731-8000

SCALE: AS SHOWN DGN. BY: SED
DATE: AS SHOWN DWN. BY: JGA
JOB NO. C0011-005 DWG. NO. --
SUBMITTED: -- SURV. BY: --

STATE OF TEXAS
STEVE E. DUNCAN
83252
LICENSED PROFESSIONAL ENGINEER

THIS SEAL WAS AUTHORIZED BY STEVE E. DUNCAN, P.E. 83252 ON 06/03/2009

SHEET NO.
C6
OF 10

S:\JC-JOB\C0011 Bryan-City\C0011-005 MLK Sidewalks\SURVEY\SHEET - MLK_recover0001.dwg Jun 04,2009 - 9:42am RP2

DRIVE	EXISTING PART 1 SLOPE (%)	PART 1 LENGTH	PART 2 SLOPE (%)	PART 2 LENGTH	PART 3 SLOPE (%)	PART 3 LENGTH	PROPOSED Sidewalk width	Demo Length	Proposed slope
7-A	11.51%	5.3	6.19%	11.3			4	10	13.66%
7-B	0.23%	4.26	4.29%	14			4	10	2.93%
7-C	9.60%	4	20.00%	10	3.00%	4	6	18	19.58%
7-D	10.50%	4	7.00%	15			6	15	11.88%
7-E									
7-F									
7-G	14.25%	4	30.09%	4.42	7.04%	9.95	4	23	14.73%
7-H	2.20%	5	-3.42%	3.8	-2.57%	10.5	6	6	--
7-I	11.80%	4	14.20%	10			6	30	16.85%
7-J									
7-K	13.61%	3.16	5.35%	20			4	10	11.89%
7-L	8.25%	5.7	4.25%	15.3	4.60%	4	6	10	12.33%

CONTRACTOR TO FIELD VERIFY EXISTING DRIVEWAY GRADES W/ CITY INSPECTOR PRIOR TO CONSTRUCTION

DRIVE	EXISTING PART 1 SLOPE (%)	PART 1 LENGTH	PART 2 SLOPE (%)	PART 2 LENGTH	PART 3 SLOPE (%)	PART 3 LENGTH	PROPOSED Demo Length	Proposed slope
7-M	16.67%	4.62	21.48%	5.4	2.86%	14	20	13.15%
7-N	8.96%	4.8	6.11%	15.7			12	12.50%
7-O	7.12%	5.2	5.71%	17			12	10.63%
7-P	6.84%	5.7	4.69%	20.7			12	9.42%
7-Q	2.40%	5	18.60%	9	5.20%	10	18	15.51%
7-R	6.75%	8	1.48%	32.5			12	7.97%
7-S	16.25%	4	12.30%	10			20	17.83%
7-T	12.11%	5.7	3.21%	8.4			14	10.41%
7-U	12.60%	5	11.75%	4	6.20%	13.7	20	11.85%
7-V	7.14%	5.6	10.61%	3.3			15	14.19%
7-W	6.93%	20.2					20	9.12%

City of Bryan
City Project No. 350-D8-0828

MLK Sidewalk and Streetscaping
Phase 1 & 2

90+00–105+00

JONES & CARTER, INC.
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Texas Board of Professional Engineers Registration No. F-439
700 University Dr. East, Ste. 110C. College Station, Texas 77840 (979) 731-8000

SCALE: AS SHOWN DGN. BY: SED
DATE: AS SHOWN DWN. BY: JGA
JOB NO. C0011-005 DWG. NO. --
SUBMITTED: -- SURV. BY: --

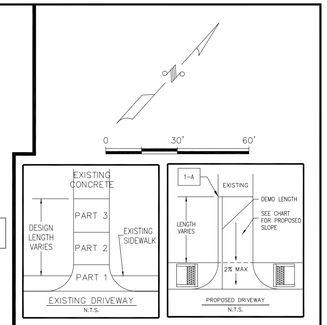
STATE OF TEXAS
STEVE E. DUNCAN
83252
LICENSED PROFESSIONAL ENGINEER

THIS SEAL WAS AUTHORIZED BY STEVE E. DUNCAN, P.E. 83252 ON 06/03/2009

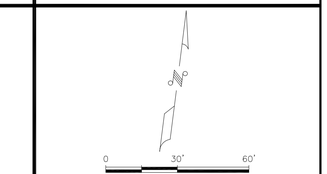
SHEET NO.
C7
OF 10

S:\0-JOBS\C0011 Bryan--City\C0011-005 MLK Sidewalks\DWGS\SHEET - MLK_recover003.dwg Jun 04,2009 - 9:46pm RD

	EXISTING						PROPOSED	
	PART 1		PART 2		PART 3		Demo	Proposed
DRIVE	SLOPE (%)	LENGTH	SLOPE (%)	LENGTH	SLOPE (%)	LENGTH	Length	slope
8-A	14.00%	3.5	7.04%	13.5			10	14.42%
8-B	9.56%	3.66	1.36%	5.15	0.61%	14.75	10	7.64%
8-C	14.10%	4.54	9.92%	14.12			15	14.50%
8-D	10.20%	5.39	15.20%	20			26	16.38%
8-E	7.23%	4.15	4.73%	15.02			10	11.41%
8-F	17.14%	3.5	15.77%	4.44	4.88%	12.9	15	13.11%
8-G	8.16%	2.64	1.14%	14.04			10	9.71%
8-H	13.45%	5.5	2.83%	4.24	0.52%	15.44	12	12.42%
8-I	4.37%	2.52	-2.03%	1.48	4.62%	19.25	4.1	-2.18%
8-J	11.58%	3.11	7.69%	13			12	15.93%



CONTRACTOR TO FIELD VERIFY EXISTING DRIVEWAY GRADES W/ CITY INSPECTOR PRIOR TO CONSTRUCTION



City of Bryan
City Project No. 350-D8-0828

MLK Sidewalk and Streetscaping
Phase 1 & 2

105+00–120+00

JONES & CARTER, INC.
ENGINEERS • PLANNERS • SURVEYORS
Texas Board of Professional Engineers Registration No. F-439
700 University Dr. East, Ste. 110C. College Station, Texas 77840 (979) 731-8000

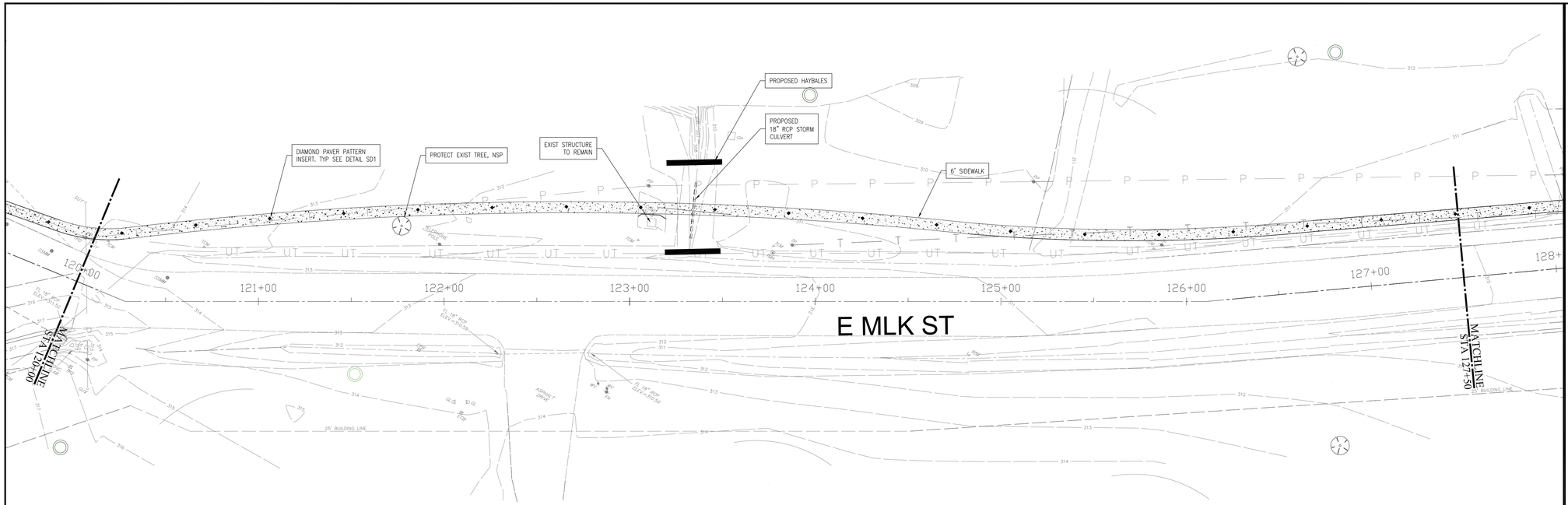
SCALE: AS SHOWN DGN. BY: SED
DATE: AS SHOWN DWN. BY: JGA
JOB NO. C0011-005 DWG. NO. --
SUBMITTED: -- SURV. BY: --

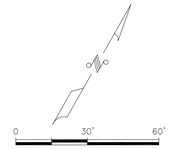
STATE OF TEXAS
STEVE E. DUNCAN
83252
LICENSED PROFESSIONAL ENGINEER

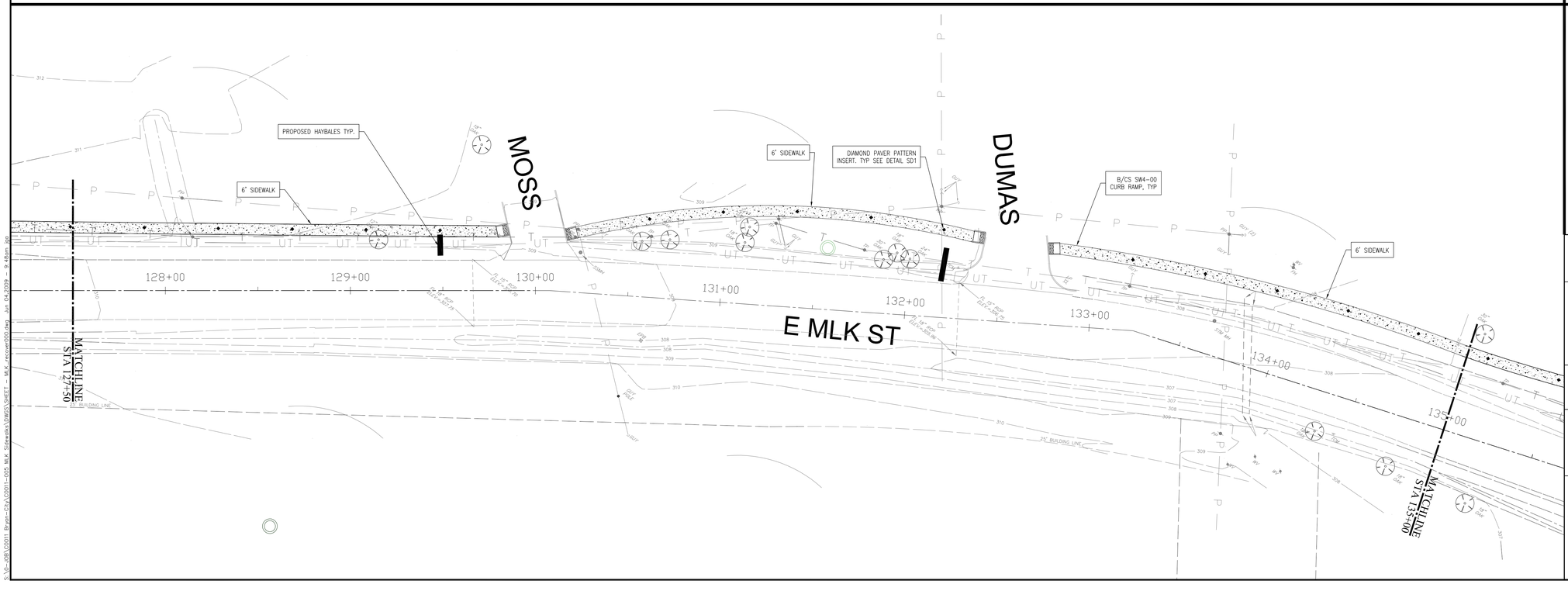
THIS SEAL WAS AUTHORIZED BY STEVE E. DUNCAN, P.E. 83252 ON 06/03/2009

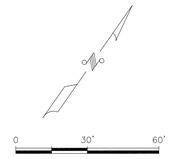
SHEET NO.
C8
OF 10

S:\D--JOB\C0011 Bryan--CITY\C0011-005 MLK Sidewalk\SHEETS\MLK_sidewalk003.dwg Jun 04,2009 - 9:47am jrp









City of Bryan
City Project No. 350-D8-0828

MLK Sidewalk and Streetscaping
Phase 1 & 2

120+00–135+00

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Texas Board of Professional Engineers Registration No. F-439
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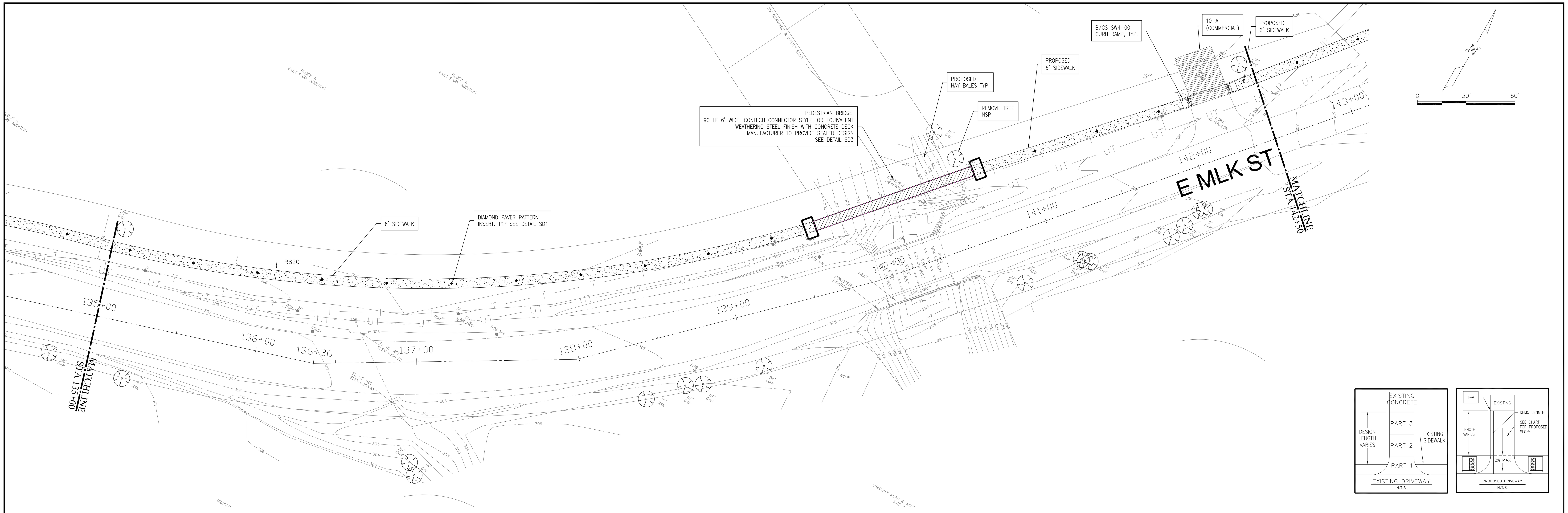
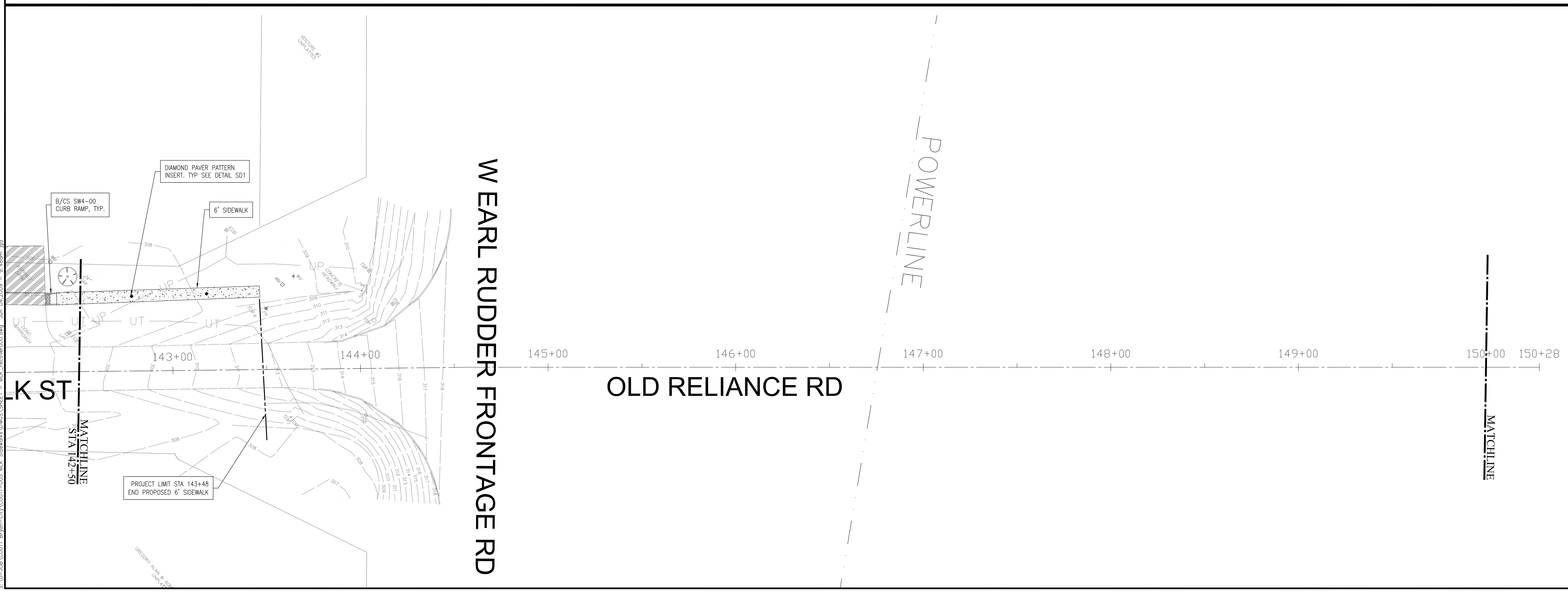
STATE OF TEXAS
STEVE E. DUNCAN
83252
LICENSED PROFESSIONAL ENGINEER

THIS SEAL WAS AUTHORIZED BY STEVE E. DUNCAN, P.E. 83252 ON 06/03/2009

SHEET NO.
C9
OF 10

S:\J\C\C0011 Bryan - City\C0011-005 MLK Sidewalks\DWGS\SHEET - MLK_recover000.dwg Jun 04,2009 - 9:48pm RP





City of Bryan
City Project No. 350-DB-0828

MLK Sidewalk and Streetscaping
Phase 1 & 2

135+00–150+00

JONES & CARTER, INC.
ENGINEERS • PLANNERS • SURVEYORS
Texas Board of Professional Engineers Registration No. F-439
700 University Dr. East, Ste. 110C, College Station, Texas 77840 (979) 731-8000

SCALE:	AS SHOWN	DGN. BY:	SED
DATE:	AS SHOWN	DWN. BY:	JGA
JOB NO.	C0011-005	DWG. NO.	--
SUBMITTED:	--	SURV. BY:	--

STATE OF TEXAS
STEVE E. DUNCAN
83252
LICENSED PROFESSIONAL ENGINEER

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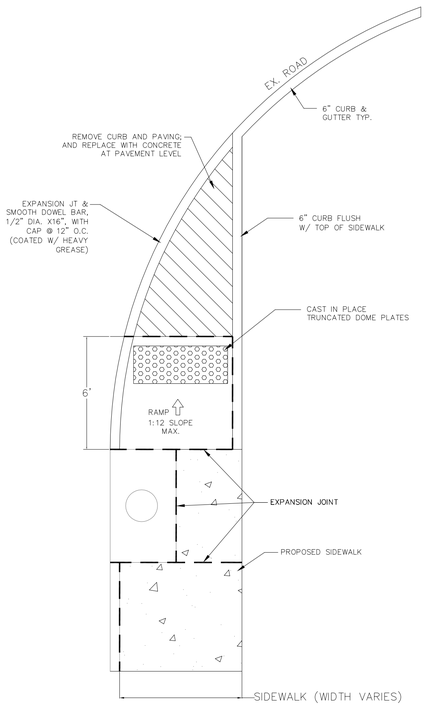
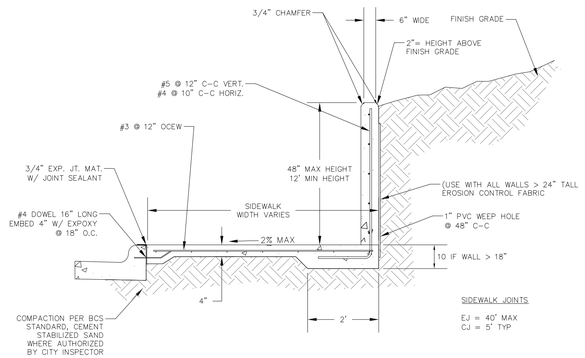
SHEET NO.
C10
OF 10



TYPICAL RAMP @ STREET INTERSECTION WITH EX. STORM INLET

NTS

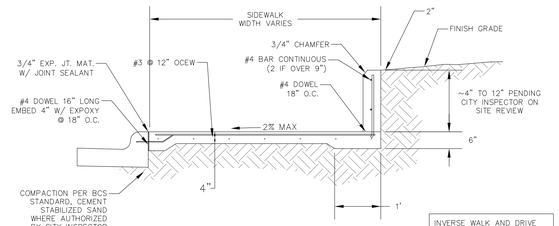
SEE BCS STANDARDS FOR SW4-00 WITH FOLLOWING CHANGES



RETAINING WALL

NTS

INVERSE WALK AND DRIVE THICKNESS TO 6" & PROVIDE 4" OF CEMENT STABILIZED SAND BASE FOR COMMERCIAL DRIVES OR STREETS

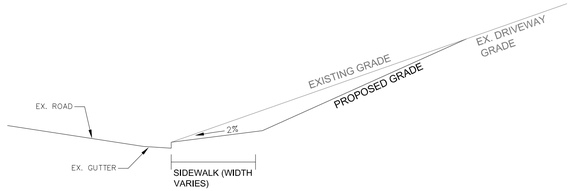


CURB WALL

NTS

INVERSE WALK AND DRIVE THICKNESS TO 6" & PROVIDE 4" OF CEMENT STABILIZED SAND BASE FOR COMMERCIAL DRIVES OR STREETS

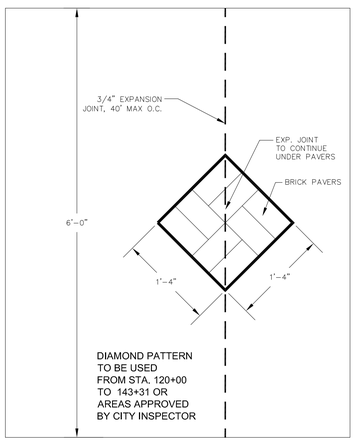
FIELD VERIFY EXISTING DRIVEWAY GRADE.
REFER TO GRADE CHART TO DETERMINE PROPOSED GRADE OF CONCRETE.



PROFILE

TYPICAL RESIDENTIAL DRIVEWAY

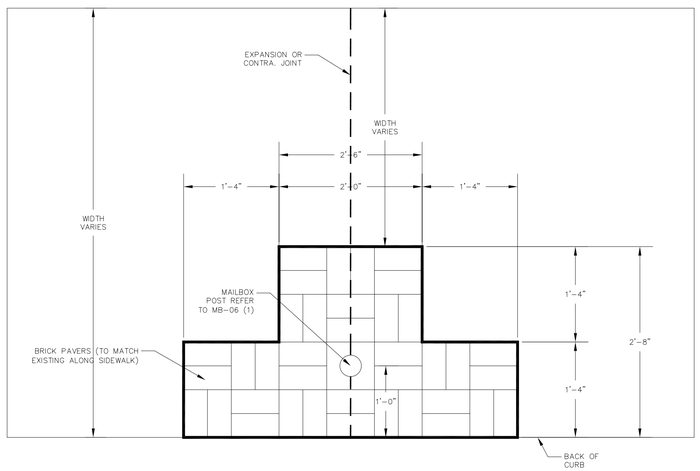
NTS



PAVERS TO BE IN ACCORDANCE WITH B/CS STANDARD SW1-02

PAVER DIAMOND PATTERN

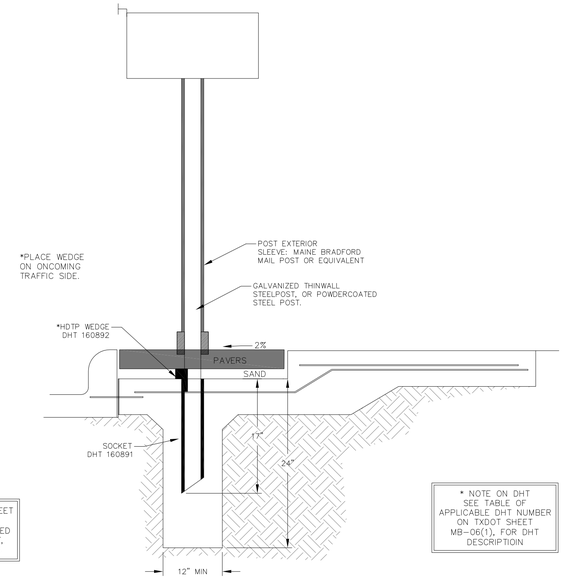
NTS



PAVERS TO BE IN ACCORDANCE WITH B/CS STANDARD SW1-02

SINGLE MAILBOX MOUNT PLAN VIEW

NTS



REFER TO TXDOT SHEET MB-06(1) ⅔ FOR DETAILS OF APPROVED FOUNDATION, POST, PARTS & DETAILS

* NOTE ON DHT SEE TABLE OF APPLICABLE DHT NUMBER ON TXDOT SHEET MB-06(1), FOR DHT DESCRIPTIOIN

SECTION VIEW: MAILBOX & PAVER DETAIL

NTS

City of Bryan
City Project No. 350-08-0828

MLK Sidewalk and Streetscaping

Phase 1 & 2

PROJECT DETAILS 1

JONES & CARTER, INC.
ENGINEERS • PLANNERS • SURVEYORS
Texas Board of Professional Engineers Registration No. F-439
700 University Dr. East, Ste. 110C, College Station, Texas 77840 (979) 731-8000

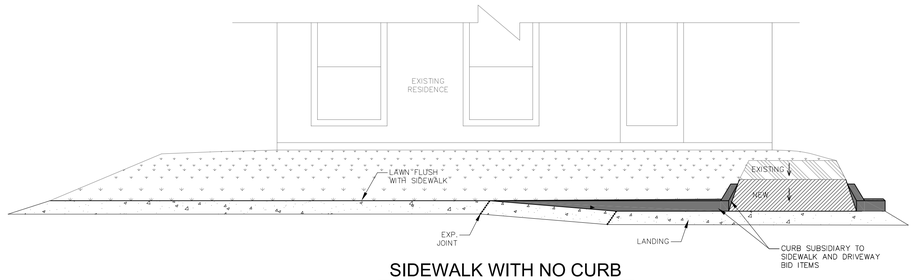
SCALE:	AS NOTED	DGN. BY:	SED
DATE:	AS SHOWN	DWN. BY:	CLS
JOB NO.	C0011-005	DWG. NO.	--
SUBMITTED:	--	SURV. BY:	--

STATE OF TEXAS
STEVE E. DUNCAN
83252
PROFESSIONAL ENGINEER

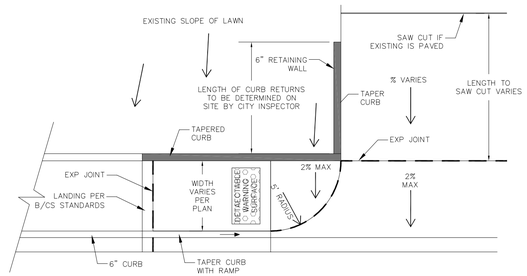
THIS SEAL WAS AUTHORIZED BY STEVE E. DUNCAN, P.E. 83252 ON 06/03/2009

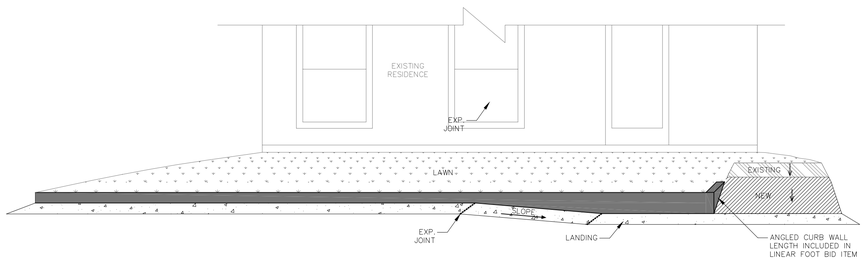
SHEET NO.
SD1
OF 3

G:\C\--005\C0011 Bryan-City\C0011-005 MLK Sidewalks\DWGS\SHEETS-DETAILS.dwg Jun 04,2009 - 9:50am jpp

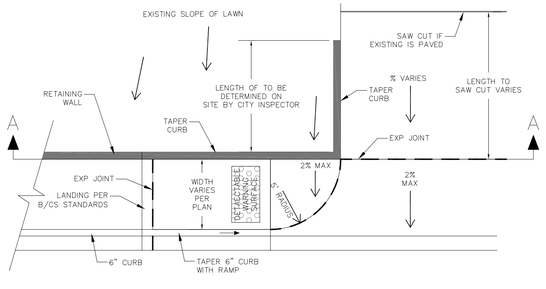


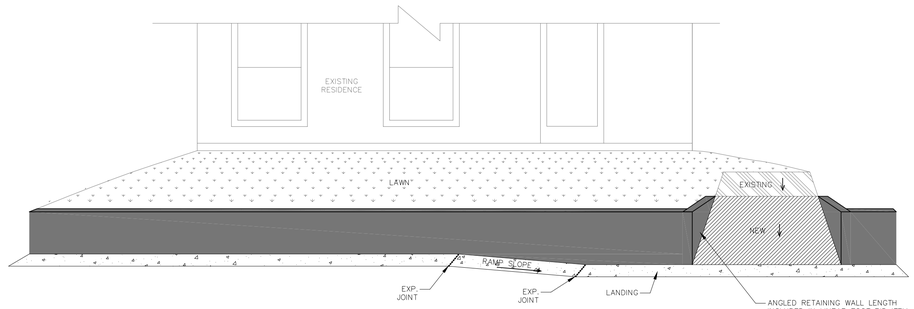
SIDEWALK WITH NO CURB
NTS



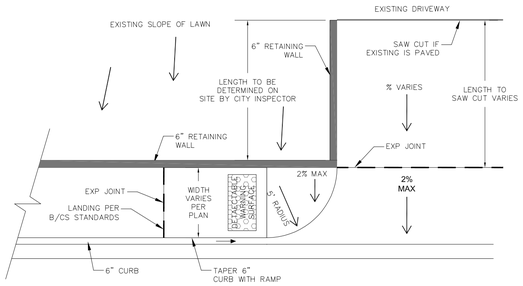


SIDEWALK WITH 4" TO 12" CURB WALL AND DRIVEWAY RETURN
NTS





SIDEWALK WITH RETAINING WALL (HEIGHT VARIES MIN 12" - MAX 48") AT DRIVEWAY AND RETURN
NTS



City of Bryan
City Project No. 350-08-0828

MLK Sidewalk and Streetscaping

Phase 1 & 2

PROJECT DETAILS 2

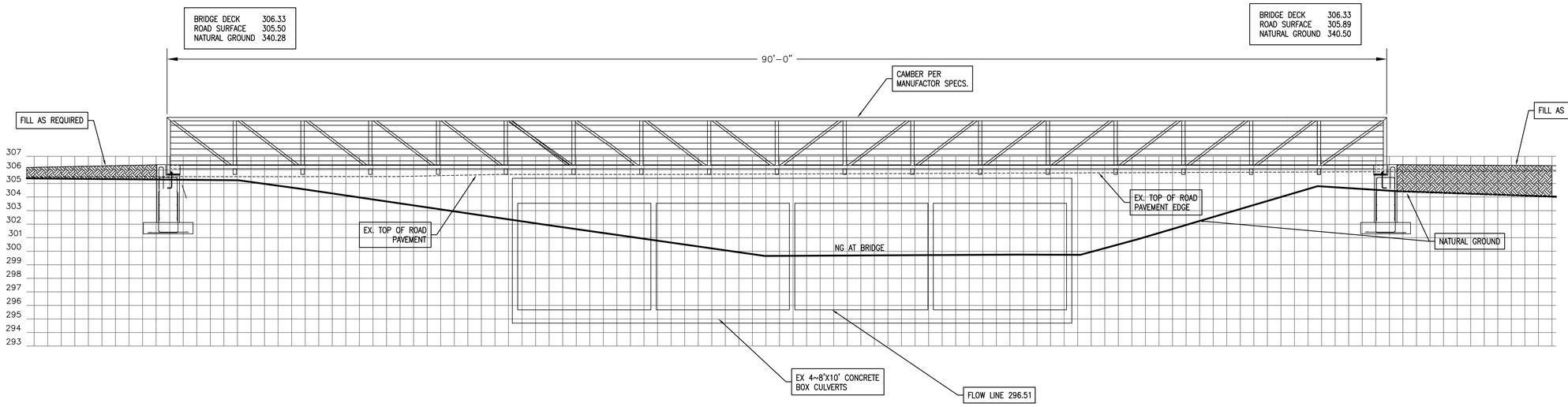
JONES & CARTER, INC.
ENGINEERS • PLANNERS • SURVEYORS
Texas Board of Professional Engineers Registration No. F-439
700 University Dr. East, Ste. 110C, College Station, Texas 77840 (979) 731-8000

SCALE: AS NOTED DGN. BY: SED
DATE: AS SHOWN DWN. BY: CLS
JOB NO. C0011-005 DWG. NO. --
SUBMITTED: -- SURV. BY: --

STATE OF TEXAS
STEVE E. DUNCAN
83252
PROFESSIONAL ENGINEER

THIS SEAL WAS AUTHORIZED BY STEVE E. DUNCAN, P.E. 83252 ON 06/03/2009

SHEET NO.
SD2
OF 3



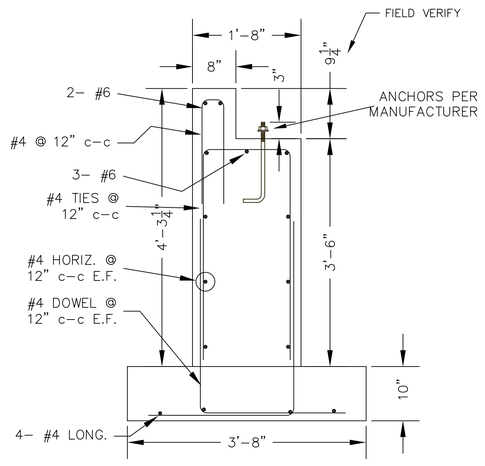
PROFILE
SCALE 1"=50'

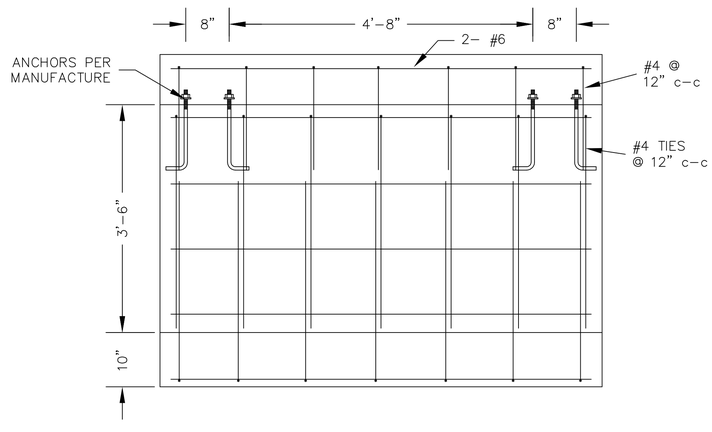
1. CONTRACTOR WILL FURNISH AND INSTALL MAILBOX SUPPORTS AND CONNECTING HARDWARE PER TXDOT MAILBOX STANDARDS, INCLUDING THE FOLLOWING SPECIFIC ITEMS.

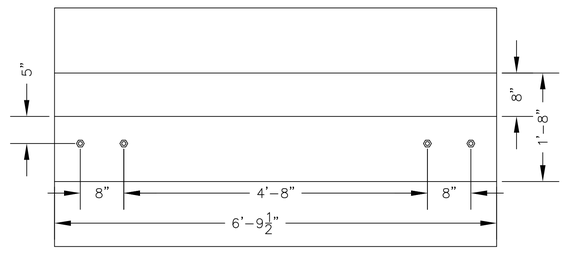
   MAILBOX:
   LOWE'S: FIRST CLASS SEVILLE, MODEL NO.: MB950BSN OR EQUIVALENT. EXTRA LARGE #1-1/2 SIZE MAILBOX FINISH: BLACK WITH NICKEL FINISH ACCENTS
   POST:
   LOWE'S: MAYNE BRADFORD MAIL POST BLACK, OR EQUIVALENT
   MODEL NO.: 581700300
   LENGTH: 3.5
   COLOR/FINISH: BLACK
   GROUND MOUNT METHOD: TXDOT TYPE 4 SUPPORT FOUNDATION
   MAILBOX MOUNTING BRACKET:
   LOWE'S: POSTMAKER MAILBOX MOUNTING BRACKET, OR EQUIVALENT
   CONTRACTOR MUST MAINTAIN USPS SERVICE TO ALL MAILBOXES
   AT ALL TIMES DURING CONSTRUCTION
   MODEL NO.: LMB100000, OR EQUIVALENT. ADDRESS LABEL.

2. CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING NEW ADDRESS LABEL ON MAILBOX PER USPS STANDARDS.

3. THE CONTRACTOR SHALL CONTACT THE FOLOWING UNITED STATES POSTAL SERVICE EMPLOYEES TO ASSIST WITH ISSUES RELATED TO DELIVERY MAILBOX PLACEMENT THAT MAY ARISE DURING CONSTRUCTION.
   NAME: SHERRY BRIDGES
   TITLE: USPS, CUSTOMERS SERVICE SUPERVISOR
   PHONE: (979) 774-2318







ABUTMENT DETAIL
NTS

City of Bryan
City Project No. 350-D8-0828

MLK Sidewalk and Streetscaping
Phase 1 & 2

PEDESTRIAN BRIDGE

JONES & CARTER, INC.
ENGINEERS • PLANNERS • SURVEYORS
Texas Board of Professional Engineers Registration No. F-439
700 University Dr. East, Ste. 110C, College Station, Texas 77840 (979) 731-8000

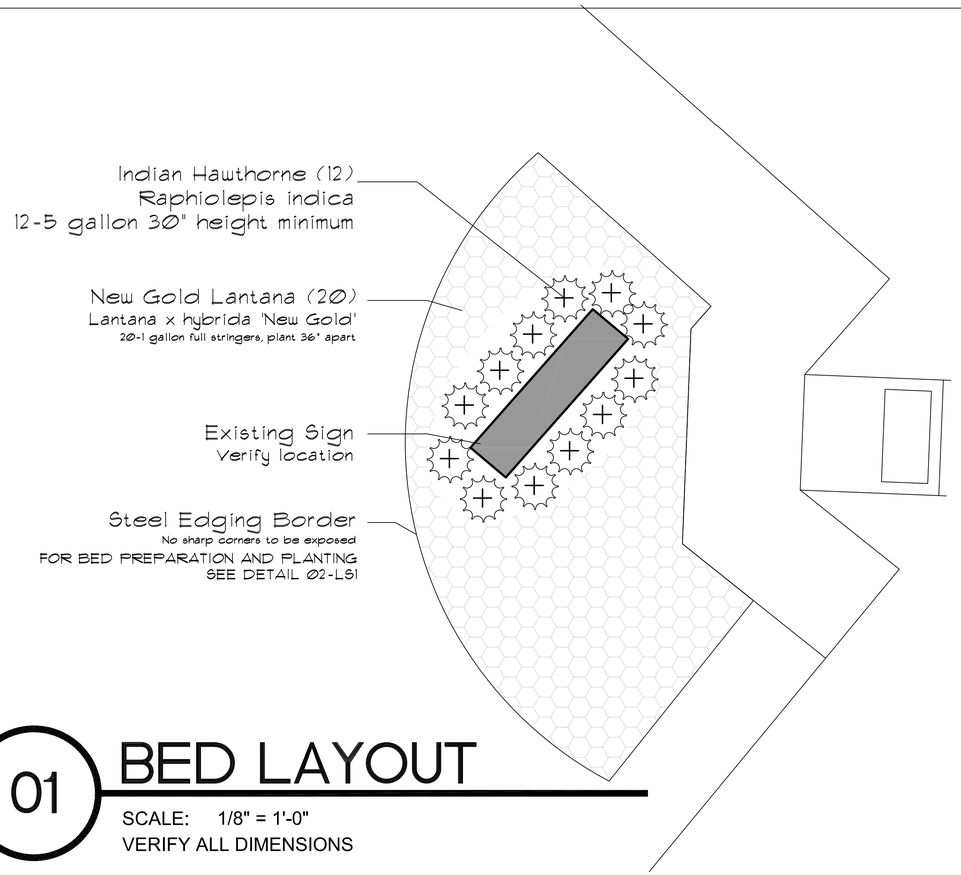
SCALE: AS SHOWN DGN. BY: SED
DATE: AS SHOWN DWN. BY: CLS
JOB NO. C0011-005 DWG. NO. --
SUBMITTED: -- SURV. BY: --

STATE OF TEXAS
STEVE E. DUNCAN
83252
PROFESSIONAL LICENSED ENGINEER

THIS SEAL WAS AUTHORIZED BY STEVE E. DUNCAN, P.E. 83252 ON 06/03/2009

SHEET NO.
SD-3
OF 3

S:\C-JOB\C0011 Bryan-City\C0011-005 MLK Sidewalks\DWGS\SHEET - BRIDGE.dwg Jun 04,2009 - 8:28am jpz

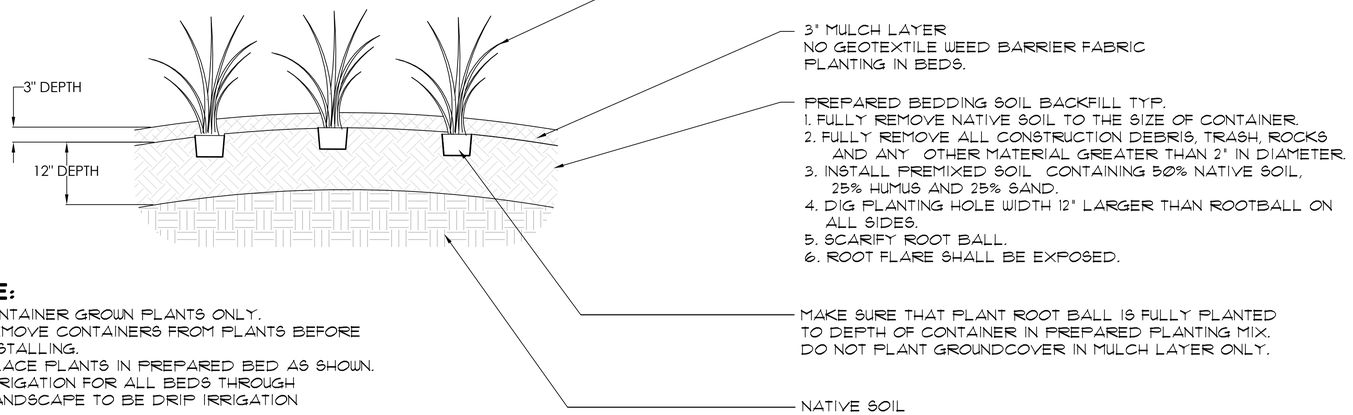


01 BED LAYOUT

SCALE: 1/8" = 1'-0"
VERIFY ALL DIMENSIONS

General Notes

01. All Plant Material shall be pruned / shaped as per Landscape Architect after installation to remove any broken or damaged branches and to give uniformity of shape.
02. All Plant Material must be approved by the Landscape Architect before installation.
03. Verify all quantities before installation.
04. Broken pieces of sod (smaller than 8" square) are not acceptable.
05. All Crape Myrtle Trees are to be pruned up to expose 4' clear trunk(s).
06. Landscape Contractor is responsible for clearing any dirt or mud from public roadway. Landscape Contractor is also responsible for keeping the site clean during construction and plant installation.
07. All proposed "New Canopy Trees" shall be containerized.
08. An automatic irrigation system will cover the entire landscaped areas.
09. Bedding Soil (flowerbeds) shall be prepared to a depth of 8 inches and. consist of 40% Sandy Loam Topsoil, 60% Black Humus.
10. All flowerbeds shall be top dressed with a 3" layer of Black Humus or equal.
11. Install 3' diameter mulch rings (3" thick) around all trees (canopy and non-canopy) which appear in lawn areas.
12. All plant material is to be guaranteed for 1 full year.
13. Erosion control is required as needed and clean-up is included.
14. See Site Plan for topographic information, existing and proposed utilities, easements, adjacent land uses, existing development and roadways.



NOTE:

1. CONTAINER GROWN PLANTS ONLY.
2. REMOVE CONTAINERS FROM PLANTS BEFORE INSTALLING.
3. PLACE PLANTS IN PREPARED BED AS SHOWN.
4. IRRIGATION FOR ALL BEDS THROUGH LANDSCAPE TO BE DRIP IRRIGATION

02 PLANTER DETAIL

SCALE: NTS
VERIFY ALL DIMENSIONS

STATE OF TEXAS
WM. ALAN KING
1900
05-26-09

LANDFORM STUDIO
LANDSCAPE ARCHITECTS
3707 South College Ave.
Bryan, TX 77801
979.846.2775

Planting Plan
Carver School Entrance

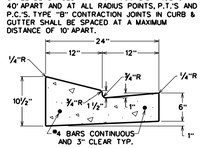
City Project No. 350-D8-0828
MLK Sidewalk and Streetscape Phase 1 & 2
Bryan
77803

Sheet Date: 05/20/09
LFS 9.033.11

Sheet Title:
LS1

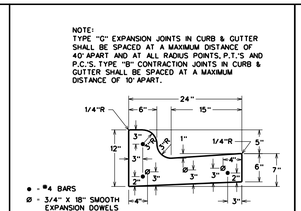
SheetNo.:
1 OF 1

Drawn By JG
Project Manager AK



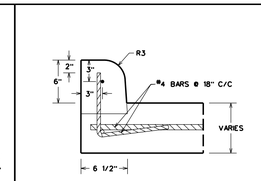
24" LAY DOWN GUTTER SECTION

ST1-00



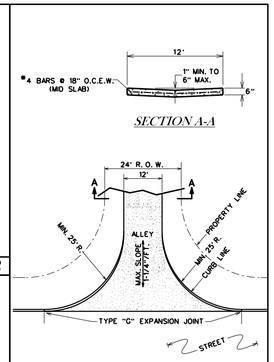
TYPICAL COMBINED CURB & GUTTER SECTION

ST1-01



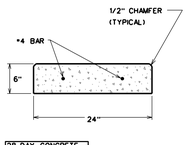
DOWELLED IN CURBS DETAIL

ST1-02



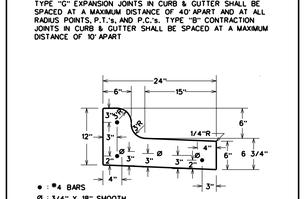
ALLEY PAVING

ST1-06



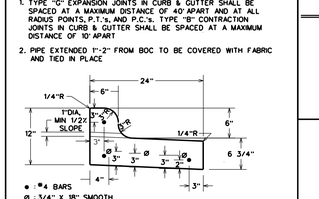
TYPICAL RIBBON CURB

ST1-03



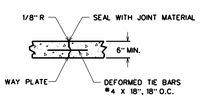
TYPICAL COMBINED SPILL CURB

ST1-04



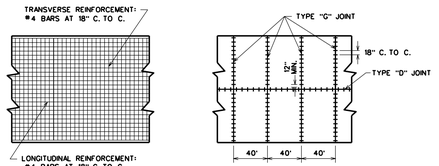
TYPICAL WEEPHOLE CURB

ST1-05



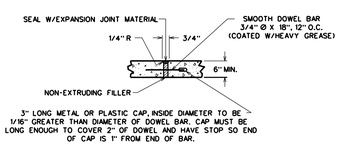
TYPE "D" LONGITUDINAL JOINT

LONGITUDINAL JOINTS SHALL BE REQUIRED ONLY ON THE CENTERLINE OF THE PAVEMENT & IN INTERSECTIONS AS DETAILED



TANGENT SECTIONS

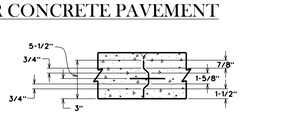
TYPICAL JOINT & REINFORCEMENT LAYOUT FOR CONCRETE PAVEMENT



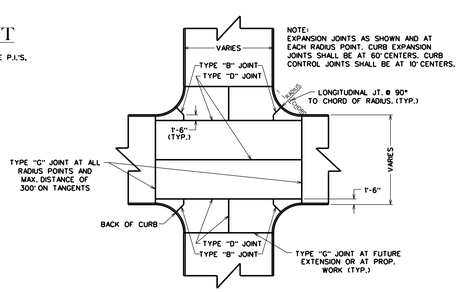
3" LONG METAL OR PLASTIC CAP, INSIDE DIAMETER TO BE 1/16" GREATER THAN DIAMETER OF DOWEL BAR, CAP MUST BE LONG ENOUGH TO COVER 2" OF DOWEL AND HAVE STOP SO END OF CAP IS 1" FROM END OF BAR.

TYPE "G" EXPANSION & CONSTRUCTION JOINT

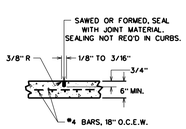
TO BE SPACED AT 40' INTERVALS & ALL RADIUS POINTS, P.C.'S, P.T.'S, & OPPOSITE P.I.'S, & ON ALL HORIZONTAL & VERTICAL CURVES



METAL KEY WAY PLATE



TYPICAL JOINT LAYOUT AT CONCRETE INTERSECTION



TYPE "B" CONTRACTION JOINT

TRANSVERSE JOINTS SHALL BE SPACED 15' CENTER TO CENTER

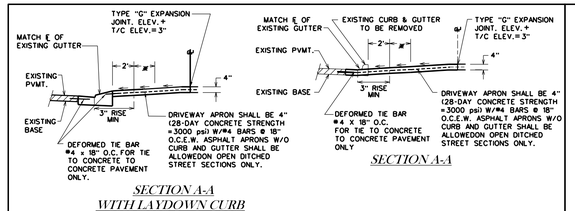
GENERAL NOTES:

ALL AREAS WHERE EXISTING VEGETATION AND GRASS COVER HAVE BEEN BARED BY CONSTRUCTION SHALL BE ADEQUATELY BLOCK SODDED OR HYDROMULCHED AND WATERED UNTIL GROWTH IS ESTABLISHED. IN DEVELOPED AREAS WHERE GRASS IS PRESENT, BLOCK SOD WILL BE REQUIRED. BARED AREAS SHALL BE SEEDED OR SODDED WITHIN 14 CALENDAR DAYS OF LAST DISTURBANCE.

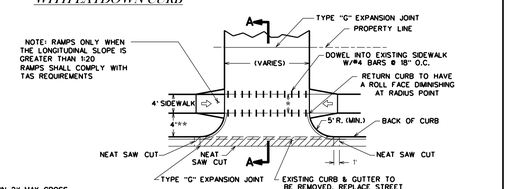
APPROVED EROSION CONTROL MEASURES MUST BE INSTALLED DURING THE ENTIRE TIME THAT EARTH HAS BEEN BARED BY CONSTRUCTION AND SHALL STAY IN PLACE UNTIL ACCEPTABLE VEGETATIVE GROWTH IS ESTABLISHED AFTER CONSTRUCTION IS COMPLETE AND THEN REMOVED BY CONTRACTOR.

ALL EROSION CONTROL MEASURES SHOULD BE CLEANED OF SILT AFTER EVERY RAIN.

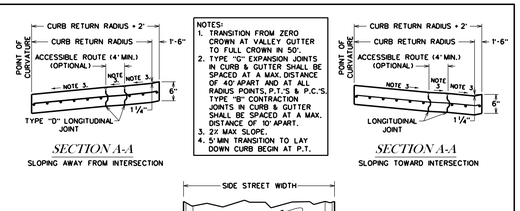
ST3-00



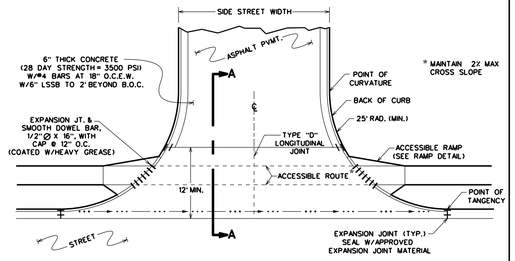
RESIDENTIAL DRIVEWAY



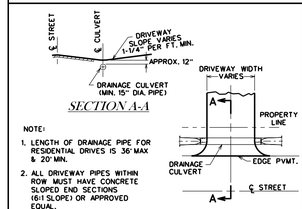
ST2-00



ST2-01

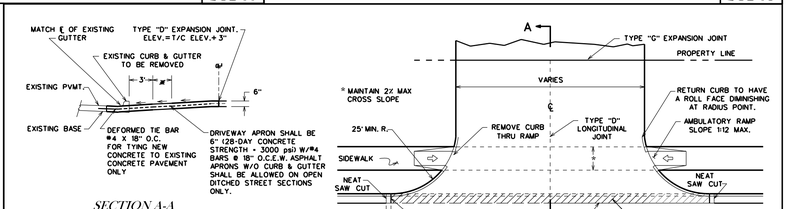


TYPICAL STREET CONCRETE APRON



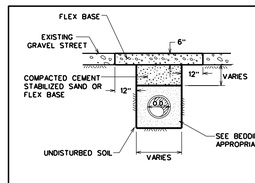
TYPICAL DRIVEWAY ENTRANCE WITH CULVERT

ST2-02



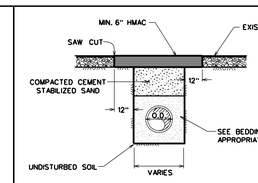
COMMERCIAL DRIVEWAY

ST2-03



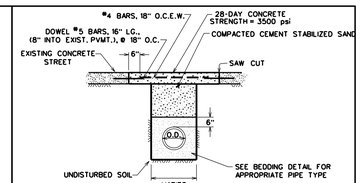
OPEN CUT GRAVEL STREET

ST4-00



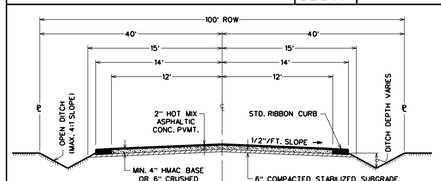
OPEN CUT SEAL COAT/ OVERLAY STREET

ST4-01



OPEN CUT CONCRETE STREET

ST4-02



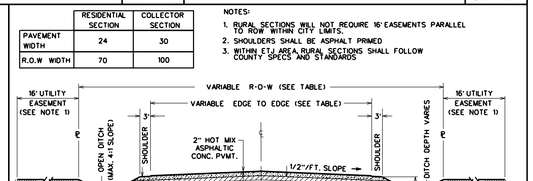
TYPICAL RURAL ROAD RIBBON CURB SECTION

RIBBON CURBS WILL BE ALLOWED WITHIN THE CITY LIMITS ONLY.

ST4-03

	RESIDENTIAL SECTION	COLLECTOR SECTION
PAVEMENT WIDTH	24	30
R.O.W WIDTH	70	100

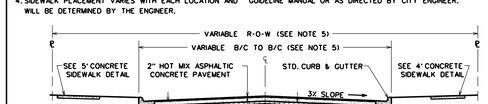
NOTES:
1. RURAL SECTIONS WILL NOT REQUIRE 16' EASEMENTS PARALLEL TO ROW WITHIN CITY LIMITS.
2. SHOULDERS SHALL BE ASPHALT PRIMED
3. WITHIN ETJ AREA RURAL SECTIONS SHALL FOLLOW COUNTY SPECS AND STANDARDS



TYPICAL RURAL ROAD SECTION

ST4-04

NOTES:
1. ALL SUBGRADES SHALL BE STABILIZED.
2. FOR SUBGRADES WITH PI>15 AND % PASSING THE #200 SIEVE ≥ 35%, USE LIME STABILIZATION.
3. FOR SUBGRADES WITH PI<15 AND % PASSING THE #200 SIEVE < 35%, USE PORTLAND CEMENT STABILIZATION.
4. SIDEWALK PLACEMENT VARIES WITH EACH LOCATION AND WILL BE DETERMINED BY THE ENGINEER.
5. REFER TO B/CS UNIFIED DESIGN GUIDELINE MANUAL FOR ACCEPTED RIGHT OF WAY AND PAVEMENT WIDTH.
6. COLLECTOR STREETS WILL BE REQUIRED TO USE 5" HMAC BASE OR 8" CRUSHED LIMESTONE BASE AND STABILIZED SUBGRADE IN ACCORDANCE WITH THE B/CS UNIFIED DESIGN GUIDELINE MANUAL OR AS DIRECTED BY CITY ENGINEER.

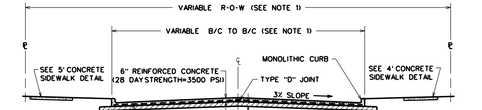


TYPICAL STREET SECTION

ASPHALTIC CONCRETE PAVEMENT

ST4-05

NOTES:
1. REFER TO B/CS UNIFIED DESIGN GUIDELINE MANUAL FOR ACCEPTED RIGHT OF WAY AND PAVEMENT WIDTH.
2. COLLECTOR STREETS WILL BE REQUIRED TO USE 8" REINFORCED CONCRETE (28 DAY STRENGTH-3500 PSI).



TYPICAL STREET SECTION

REINFORCED CONCRETE PAVEMENT

ST4-06

REVISIONS:

BRYAN - COLLEGE STATION STANDARD STREET DETAILS

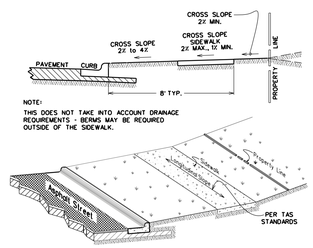
CITY OF COLLEGE STATION

CITY OF BRYAN
The Good Life, Texas Style.

DRAWN BY: C.L.M.
DATE: 01-01-08
SCALE: N T S
APPROVED: W.P.K.

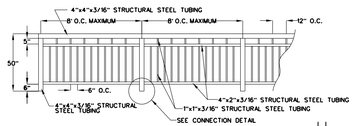
FIGURE: ST

SHEET 1 OF 1



SIDEWALK SLOPE REQUIREMENTS

SW1-00



TYPICAL PEDESTRIAN GUARDRAIL

CONNECTION DETAIL

SW1-01

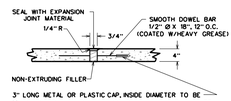
GENERAL NOTES:

ALL AREAS WHERE EXISTING VEGETATION AND GRASS COVER HAVE BEEN BARED BY CONSTRUCTION SHALL BE ADEQUATELY BLOCK SODDED OR HYDROMULCHED AND WATERED UNTIL GROWTH IS ESTABLISHED. IN DEVELOPED AREAS WHERE GRASS IS PRESENT, BLOCK SOD WILL BE REQUIRED. BARED AREAS SHALL BE SEEDED OR SODDED WITHIN 14 CALENDAR DAYS OF LAST DISTURBANCE.

APPROVED EROSION CONTROL MEASURES MUST BE INSTALLED DURING THE ENTIRE TIME THAT EARTH HAS BEEN BARED BY CONSTRUCTION AND SHALL STAY IN PLACE UNTIL ACCEPTABLE VEGETATIVE GROWTH IS ESTABLISHED AFTER CONSTRUCTION IS COMPLETE AND THEN REMOVED BY CONTRACTOR.

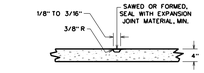
ALL EROSION CONTROL MEASURES SHOULD BE CLEANED OF SILT AFTER EVERY RAIN.

NOTES:
1. SIDEWALK PLACEMENT SHALL BE IN ACCORDANCE WITH B/CS UNIFIED DESIGN GUIDELINES.
2. FINISH: LIGHT BROOM FINISH. JOINTS TO BE TOOLED 1" DEEP AT AN INTERVAL EQUAL TO THE SIDEWALK WIDTH. EXPANSION JOINTS @ 40' O.C., CONTRACTION JOINTS @ 4' O.C.
3. DOWEL IN AND TIE TO ANY CONCRETE STRUCTURE ADJACENT TO SIDEWALK (DRIVEWAY, INLET BOX, CURB, JUNCTION BOX, ETC.) WITH #3 x 12" BARS @ 12" O.C. OR #4 x 12" BARS @ 18" O.C.
4. COMPACTION: COMPACTED SUBGRADE MATERIAL COMPACTED TO A DENSITY AT LEAST 98% OF MAXIMUM DRY DENSITY AS DETERMINED BY PROCTOR COMPACTION TEST ASTM D698 (STANDARD) AND SHALL BE 0-4% WET OF THE OPTIMUM MOISTURE CONTENT
5. A MINIMUM CLEAR PEDESTRIAN WIDTH AS DEFINED BY TAS AND ADA SHALL BE PROVIDED FOR ENTIRE LENGTH OF SIDEWALK.

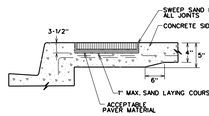


3" LONG METAL OR PLASTIC CAP, INSIDE DIAMETER TO BE 1/8" GREATER THAN DIAMETER OF DOWEL BAR. CAP MUST BE LONG ENOUGH TO COVER 2" OF DOWEL AND HAVE STOP SO END OF CAP IS 1" FROM END OF BAR.

SIDEWALK EXPANSION & CONSTRUCTION JOINT



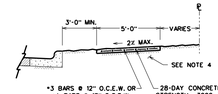
SIDEWALK CONTRACTION JOINT



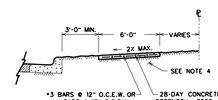
SIDEWALK PAVER SECTION

CONCRETE SIDEWALK

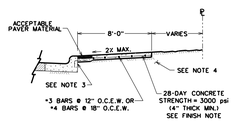
SW1-02



ALONG LOCAL STREETS

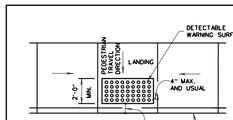


ALONG MINOR COLLECTORS AND LARGER



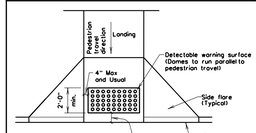
ALONG MINOR COLLECTORS AND LARGER

SW1-02



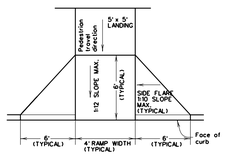
TYPICAL PLACEMENT OF DETECTABLE WARNING SURFACE ON LANDING AT STREET EDGE

SW2-00



TYPICAL PLACEMENT OF DETECTABLE WARNING SURFACE ON SLOPING RAMP RUN

SW2-01



TYPICAL AMBULATORY RAMP W/ FLARED WINGS

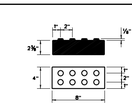
SW2-02

GENERAL NOTES FOR DETECTABLE WARNINGS

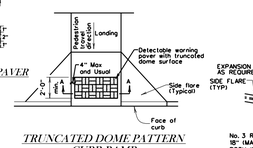
1. CURB RAMPS MUST CONTAIN A DETECTABLE WARNING SURFACE THAT CONSISTS OF RAISED TRUNCATED DOMES COMPLYING WITH SECTION 4.29 OF THE TEXAS ACCESSIBILITY STANDARDS (TAS). THE SURFACE MUST CONTRAST VISUALLY WITH ADJOINING SURFACES, INCLUDING SIDE FLARES. FURNISH DARK BROWN OR DARK RED DETECTABLE WARNING SURFACE ADJACENT TO UNCOLORED CONCRETE, UNLESS SPECIFIED ELSEWHERE IN THE PLANS.
2. DETECTABLE WARNING SURFACES MUST BE SLIP RESISTANT AND NOT ALLOW WATER TO ACCUMULATE.
3. ALIGN TRUNCATED DOMES IN THE DIRECTION OF PEDESTRIAN TRAVEL WHEN ENTERING THE STREET.
4. SHADED AREAS ON SHEETS 3 AND 4 INDICATE THE APPROXIMATE LOCATION FOR THE DETECTABLE WARNING SURFACE FOR EACH CURB RAMP TYPE.
5. DETECTABLE WARNING SURFACES SHALL BE A MINIMUM OF 24" IN DEPTH IN THE DIRECTION OF PEDESTRIAN TRAVEL, AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR LANDING WHERE THE PEDESTRIAN ACCESS ROUTE ENTERS THE STREET.
6. DETECTABLE WARNING SURFACES SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE IS A MINIMUM OF 6" AND A MAXIMUM OF 10" FROM THE EXTENSION OF THE FACE OF CURB. DETECTABLE WARNING SURFACES MAY BE CURVED ALONG THE CORNER RADIUS.
7. ACCEPTABLE PAVER MATERIAL SHALL BE CLAY, VITRIFIED POLYMER COMPOSITE, PRECAST POLYMER CONCRETE, AND CONCRETE.

PEDESTRIAN FACILITIES GENERAL NOTES

1. ALL SLOPES ARE MAXIMUM ALLOWABLE. THE LEAST POSSIBLE SLOPE THAT WILL STILL DRAIN PROPERLY SHOULD BE USED. ADJUST CURB RAMP LENGTH OR GRADE OF APPROACH SIDEWALKS AS DIRECTED.
2. LANDINGS SHALL BE A 5' X 5' MINIMUM WITH A MAXIMUM 2% SLOPE IN ANY DIRECTION.
3. MANEUVERING SPACE AT THE BOTTOM OF CURB RAMPS SHALL BE A MINIMUM OF 4' X 4' WHOLLY CONTAINED WITHIN THE CROSSWALK AND WHOLLY OUTSIDE THE PARALLEL VEHICULAR TRAVEL PATH.
4. MAXIMUM ALLOWABLE CROSS SLOPE ON SIDEWALK AND CURB RAMP IS 2%.
5. CURB RAMPS WITH RETURNED CURBS MAY BE USED ONLY WHERE PEDESTRIANS WOULD NOT NORMALLY WALK ACROSS THE RAMP, EITHER BECAUSE THE ADJACENT SURFACE IS PLANTING OR OTHER NON-WALKING SURFACE OR BECAUSE THE SIDE APPROACH IS SUBSTANTIALLY OBSTRUCTED, OTHERWISE, PROVIDE FLARED SIDES.
6. ADDITIONAL INFORMATION ON CURB RAMP LOCATION, DESIGN, LIGHT RELECTIVE VALUE, AND TEXTURE MAY BE FOUND IN THE CURRENT EDITION OF THE TEXAS ACCESSIBILITY STANDARDS (TAS) AND 16 TAC § 68.102.
7. TO SERVE AS A PEDESTRIAN REFUGE AREA, THE MEDIAN SHOULD BE A MINIMUM OF 5' WIDE. MEDIANS SHOULD BE DESIGNED TO PROVIDE ACCESSIBLE PASSAGE OVER OR THROUGH THEM.
8. CROSSWALK DIMENSIONS, CROSSWALK MARKINGS AND STOP BAR LOCATIONS SHALL BE AS SHOWN ELSEWHERE IN THE PLANS. AT INTERSECTIONS WHERE CROSSWALK MARKINGS ARE NOT REQUIRED, CURB RAMPS SHALL BE ALIGNED WITH THEORETICAL CROSSWALKS, OR AS DIRECTED BY THE ENGINEER.
9. EXISTING FEATURES THAT COMPLY WITH TAS MAY REMAIN IN PLACE UNLESS OTHERWISE SHOWN ON THE PLANS.
10. HANDRAILS ARE NOT REQUIRED ON CURB RAMPS. PROVIDE CURB RAMPS WHEREVER AN ACCESSIBLE ROUTE CROSSES (PENETRATES) A CURB.
11. SEPARATE CURB RAMP AND LANDINGS FROM ADJACENT SIDEWALK AND ANY OTHER ELEMENTS WITH PREMOLD OR BOARD JOINT OF 3/4" UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
12. PROVIDE A SMOOTH TRANSITION WHERE THE CURB RAMPS CONNECT TO THE STREET.
13. FLARE SLOPE SHALL NOT EXCEED 10% MEASURED ALONG CURB LINE.



DETECTABLE WARNING PAVER

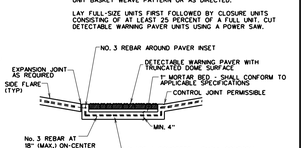


TRUNCATED DOME PATTERN CURB RAMP

GENERAL NOTES (PAVERS)

FURNISH DETECTABLE WARNING PAVER UNITS MEETING ALL REQUIREMENTS OF ASTM C-936, C-33. LAY IN A TWO BY TWO UNIT BASKET WEAVE PATTERN OR AS DIRECTED.

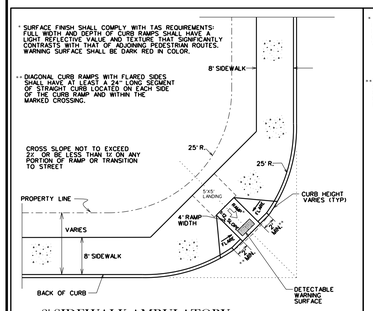
LAY FULL-SIZE UNITS FIRST FOLLOWED BY CLOSURE UNITS CONSISTING OF AT LEAST 25 PERCENT OF A FULL UNIT. CUT DETECTABLE WARNING PAVER UNITS USING A POWER SAW.



SECTION A-A

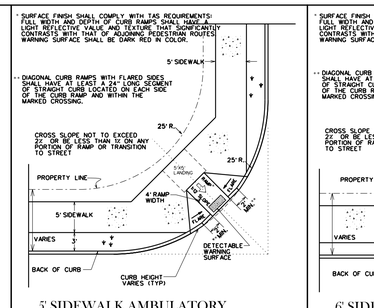
DETECTABLE WARNING PAVER

SW2-03



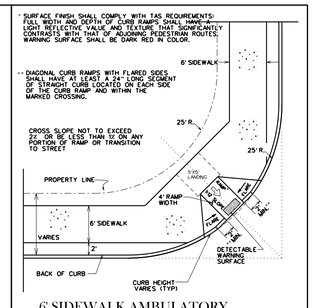
8' SIDEWALK AMBULATORY RAMP AT STREET INTERSECTION

SW3-00



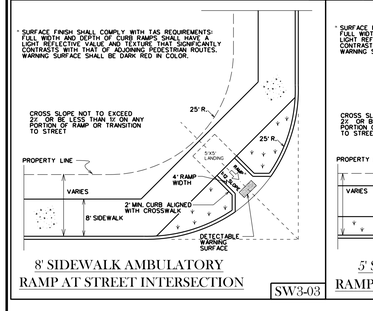
5' SIDEWALK AMBULATORY RAMP AT STREET INTERSECTION

SW3-01



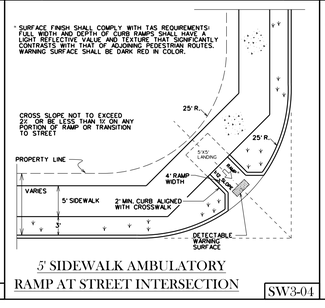
6' SIDEWALK AMBULATORY RAMP AT STREET INTERSECTION

SW3-02



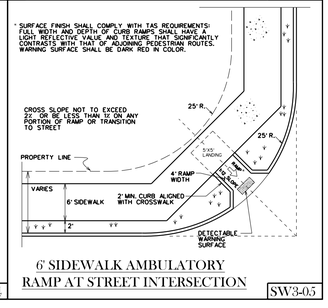
8' SIDEWALK AMBULATORY RAMP AT STREET INTERSECTION

SW3-03



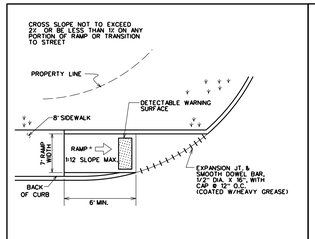
5' SIDEWALK AMBULATORY RAMP AT STREET INTERSECTION

SW3-04



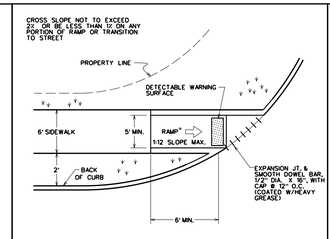
6' SIDEWALK AMBULATORY RAMP AT STREET INTERSECTION

SW3-05



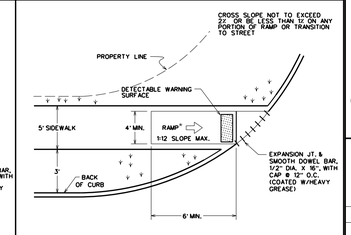
8' SIDEWALK AMBULATORY RAMP AT STREET INTERSECTION & DRIVES

SW4-00



6' SIDEWALK AMBULATORY RAMP AT STREET INTERSECTION & DRIVES

SW4-01



5' SIDEWALK AMBULATORY RAMP AT STREET INTERSECTION & DRIVES

SW4-02

REVISIONS:

BRYAN - COLLEGE STATION STANDARD SIDEWALK DETAILS

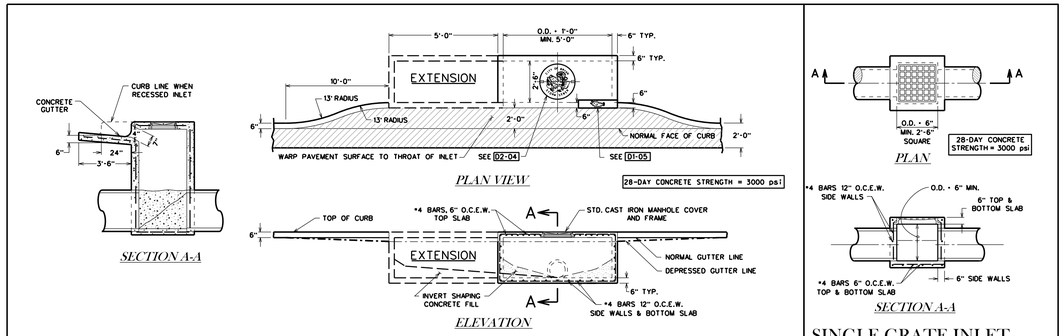
CITY OF COLLEGE STATION

CITY OF BRYAN
The Good Life, Texas Style.

DRAWN BY: C.L.M.
DATE: 01-01-08
SCALE: N T S
APPROVED: W. P. K.

FIGURE:
SW

SHEET 1 OF 1

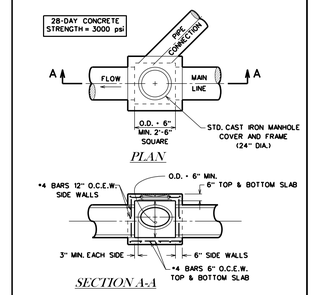


SINGLE RECESSED CURB INLET & CURB INLET W/EXTENSION

D1-00

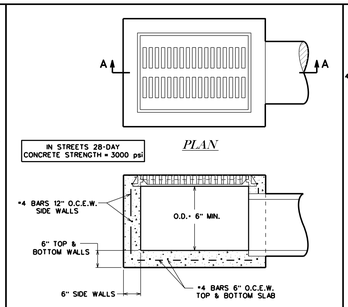
SINGLE GRATE INLET

D1-01



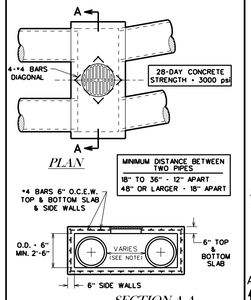
STORM SEWER JUNCTION BOX

D1-02



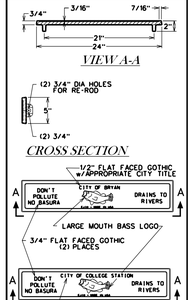
GRATE INLET

D1-03



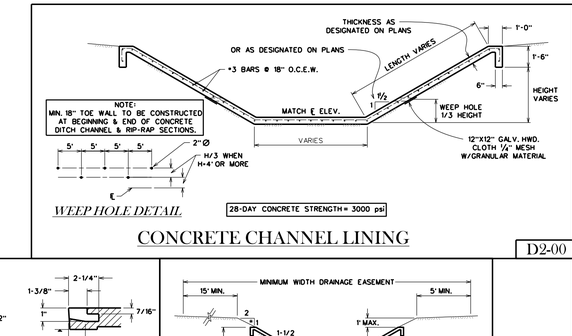
DOUBLE BARREL INLET

D1-04



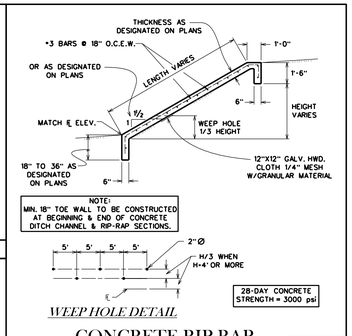
TROUT LOGO PLATE

D1-05



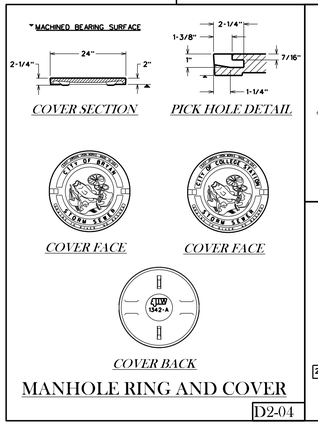
CONCRETE CHANNEL LINING

D2-00



CONCRETE RIP-RAP

D2-01

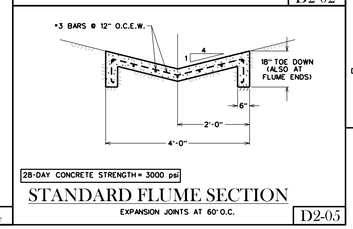


MANHOLE RING AND COVER

D2-04

STANDARD CHANNEL SECTION

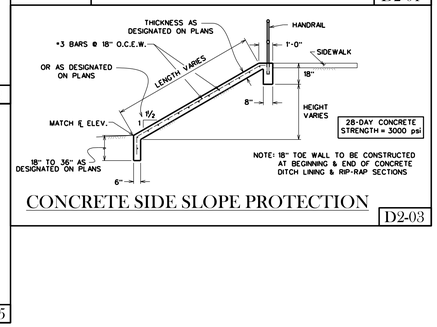
D2-02



STANDARD FLUME SECTION

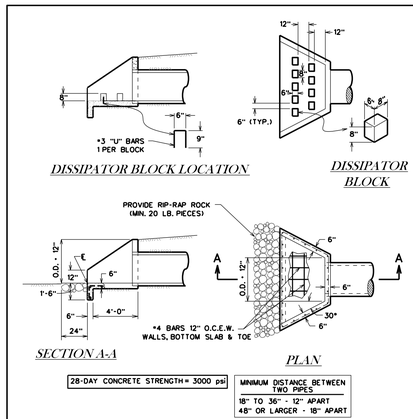
EXPANSION JOINTS AT 60' O.C.

D2-05



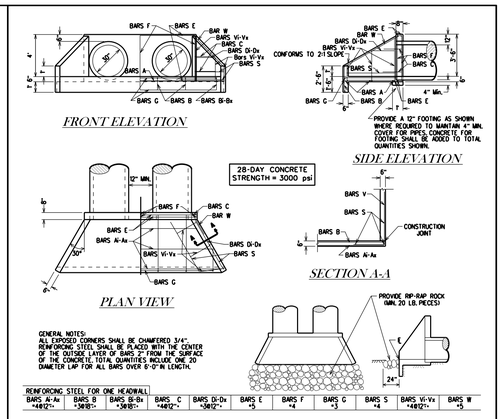
CONCRETE SIDE SLOPE PROTECTION

D2-03



TYPICAL CONCRETE HEADWALL & END WALL WITH WINGS

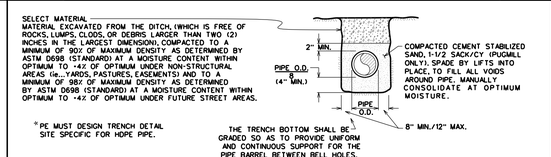
D3-00



REINFORCING STEEL FOR ONE HEADWALL											
BARS Ai-Aa *48@1'-	BARS B *36@1'-	BARS Bi-Bx *36@1'-	BARS C *48@2'-	BARS Di-Dx *36@2'-	BARS E *5	BARS F *4	BARS G *3	BARS S *4	BARS Vi-Vx *48@2'-	BARS W *5

CONCRETE HEADWALL FOR 2 PIPES

D3-01



BEDDING AND TRENCH FOR REINFORCED CONCRETE PIPE

D3-02

REVISIONS:

BRYAN - COLLEGE STATION STANDARD DRAINAGE DETAILS

CITY OF COLLEGE STATION

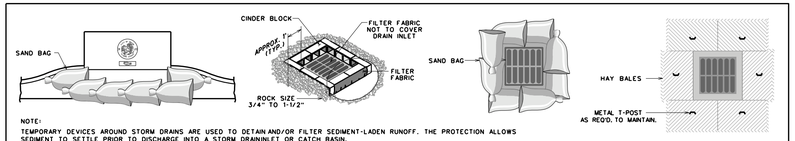
CITY OF BRYAN
The Good Life, Texas Style.

DRAWN BY: C. L. M.
DATE: 01-01-08
SCALE: N T S
APPROVED: W. P. K.

FIGURE:

D

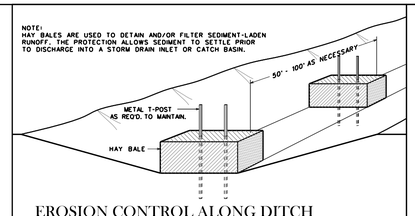
SHEET 1 OF 1



NOTE:
TEMPORARY DEVICES AROUND STORM DRAINS ARE USED TO DETAIN AND/OR FILTER SEDIMENT-LADEN RUNOFF. THE PROTECTION ALLOWS SEDIMENT TO SETTLE PRIOR TO DISCHARGE INTO A STORM DRAIN/INLET OR CATCH BASIN. SAND BAGS SHALL BE UV RESISTANT AND MUST NOT DEGRADE DUE TO ATMOSPHERIC CONDITIONS. SAND BAGS SHALL BE REPLACED UPON FIRST SIGN OF DETERIORATION.

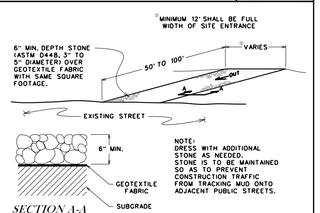
STORM DRAIN INLET PROTECTION

SWPP1-00



EROSION CONTROL ALONG DITCH

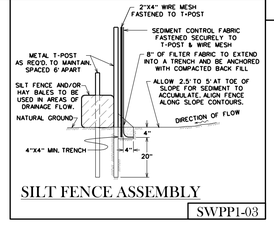
SWPP1-01



SECTION A-A

CONSTRUCTION EXIT SILT CONTROL

SWPP1-02



SILT FENCE ASSEMBLY

SWPP1-03

GENERAL NOTES:

ALL AREAS WHERE EXISTING VEGETATION AND GRASS COVER HAVE BEEN BARED BY CONSTRUCTION SHALL BE ADEQUATELY BLOCK SODDED OR HYDROMULCHED AND WATERED UNTIL GROWTH IS ESTABLISHED. IN DEVELOPED AREAS WHERE GRASS IS PRESENT, BLOCK SOD WILL BE REQUIRED. BARED AREAS SHALL BE SEEDED OR SODDED WITHIN 14 CALENDAR DAYS OF LAST DISTURBANCE.

APPROVED EROSION CONTROL MEASURES MUST BE INSTALLED DURING THE ENTIRE TIME THAT EARTH HAS BEEN BARED BY CONSTRUCTION AND SHALL STAY IN PLACE UNTIL ACCEPTABLE VEGETATIVE GROWTH IS ESTABLISHED AFTER CONSTRUCTION IS COMPLETE AND THEN REMOVED BY CONTRACTOR.

ALL EROSION CONTROL MEASURES SHOULD BE CLEANED OF SILT AFTER EVERY RAIN.

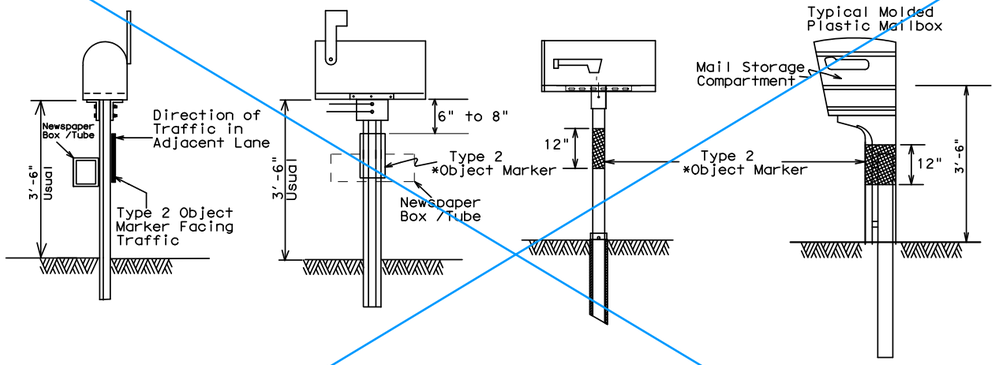
REVISIONS:

BRYAN - COLLEGE STATION STANDARD STORM WATER POLLUTION PREVENTION DETAILS

CITY OF COLLEGE STATION

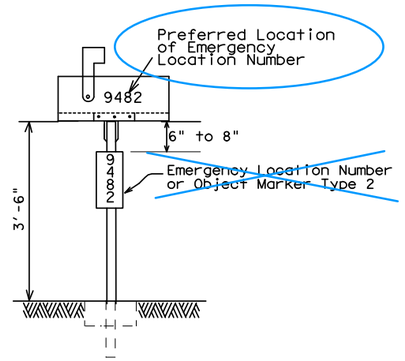
CITY OF BRYAN
The Good Life, Texas Style.

DRAWN BY: C.L.M.
DATE: 01-01-08
SCALE: N T S
APPROVED: W. P. K.
FIGURE:
SWPP



SINGLE AND DOUBLE MAILBOX MOUNT

FOR SUPPORT/FOUNDATION
DETAILS SEE SHEET 3 OF 3



Location Number shall be placed on a yellow, type A plate with class 1 flat surface reflective sheeting in accordance with DMS 8600. (Same type plate as used for the type 2 Object Marker) The color of numbers shall be black. Recommended sign size 6" by 15")

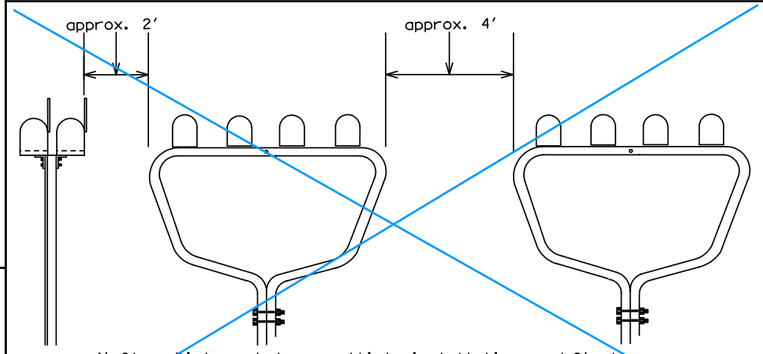
PLACEMENT OF EMERGENCY LOCATION NUMBER

Mailboxes shall be made of light weight sheet metal or light weight plastic. Heavy steel, cast iron or decorative mailboxes shall not be used on the state highway system.

TYPICAL MAILBOX SIZE				LIGHT WEIGHT MATERIAL	
				SHEET METAL	**PLASTIC
	LENGTH	WIDTH	HEIGHT	MAXIMUM WEIGHT	
SIZE	INCHES			POUNDS	
SMALL	19 ½	6	7	5	5
MEDIUM	22 ½	8	11 ½	7	7
LARGE	23 ½*	11 ½*	13 ½*	10	10

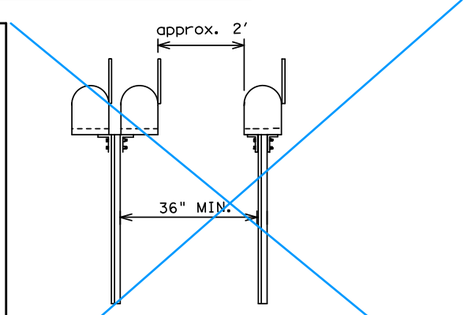
* Maximum allowed dimensions for mailbox
** Excluding Molded Plastic on 4 X 4 Post

MAILBOX SIZES



4' Clear Distance between multiple installations and 2' clearance between double or single installations and the multiple installation. DHT #'s 164116 or 149339.

MULTIPLE MAILBOX PLACEMENT

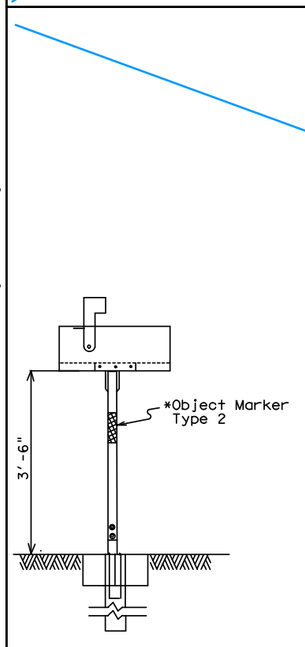


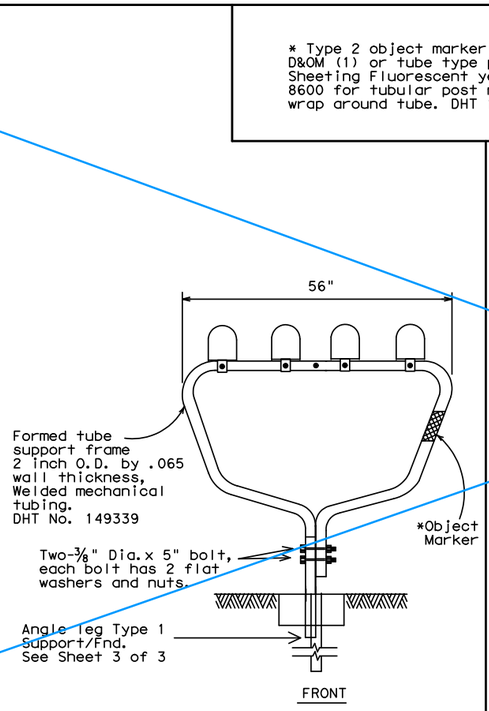
Clear Distance between single or double mounted posts. (Normally when 3 or more mailboxes are in one location, a multiple support is used).

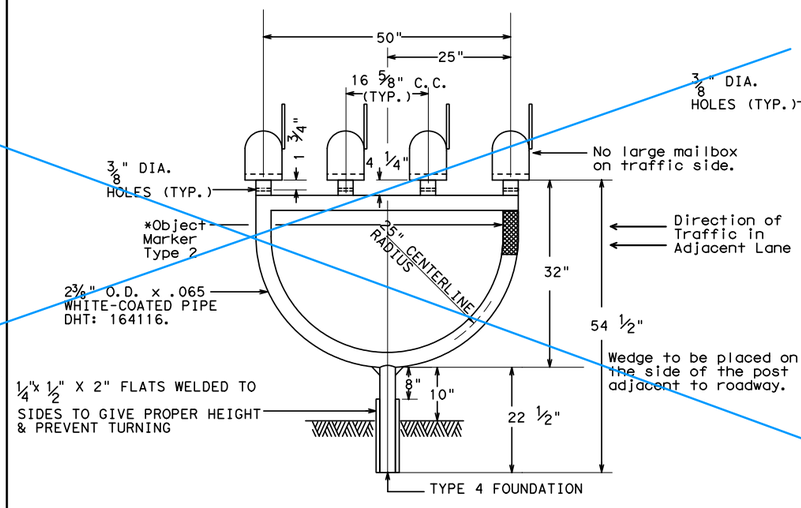
SINGLE & DOUBLE MAILBOX PLACEMENT

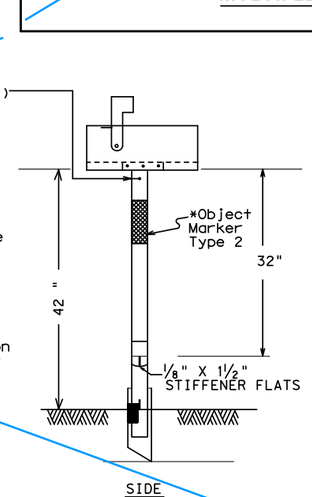
* Type 2 object marker in accordance with standard D&OM (1) or tube type post wrapped with 12 " Sheeting Fluorescent yellow in accordance with DMS 8600 for tubular post needed to produce a smooth wrap around tube. DHT 161812.

NOTE: - ALL WELDS 1/4" AROUND ALL JOINTS.
POWDERCOAT WHITE









FOR SUPPORT/FOUNDATION
DETAILS SEE SHEET 3 OF 3

NEWSPAPER RECEPTACLE

A light weight receptacle for newspaper delivery should be attached to the post of single and double mailboxes if the receptacle:

a. Does not touch the mailbox.

b. Does not present a hazard to traffic or delivery of the mail.

c. Does not extend beyond the front of the mailbox.

d. Does not display advertising, except the publication title.

Note on DHT Number

See Table of Applicable DHT Numbers on sheet 3 of 3 for DHT description.

INDEX OF MAILBOX DETAIL SHEETS

MULTIPLE MAILBOX MOUNT

Standard Plans
Texas Department of Transportation
Maintenance Division

MAILBOX MOUNTING AND SPACING

MB-06(1)

Sheet 1 of 3

FILE: MB06(1).DGN	DN: JEO	CK: LJB	DW: JEO	CK: JG	NEG:
©TxDOT NOVEMBER 2006	DIST	FED REG	FEDERAL AID PROJECT		SHEET
		6			
	COUNTY		CONTROL	SECT	JOB	HIGHWAY

REVISIONS
04/03/06: Added New Multiply Mount, DHT: 164116.
04/03/06: Added general note numbers 6 & 7.
Sheet & title block renumbered.
11/14/05: Deleted sheet 4

08/02/06: Added Maximum weight for typical mailbox size.

FILE: MB-06(1).dgn

LEVELS DISPLAYED
1 2 3 4 5 6 7 8 9 10 11 12 21 31 41 51 61
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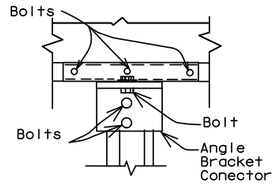
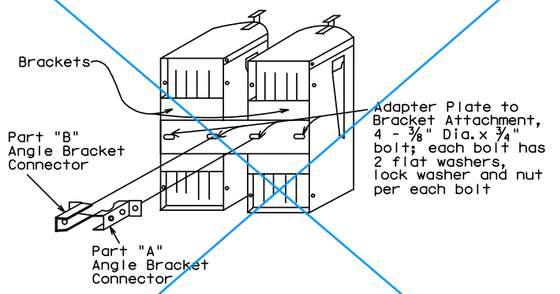
33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48
49 50 51 52 53 54 55 56 57 58 59 60 61 62 63



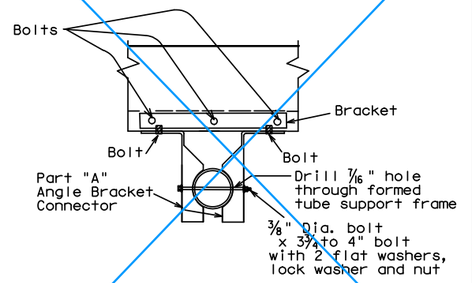
For bolt sizes see details below for "SMALL MAILBOX" and "MEDIUM AND LARGE MAILBOXES"

SINGLE MAILBOX CONNECTION

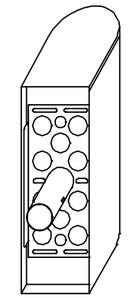


DOUBLE MAILBOX CONNECTION

(Not permitted for Large Mailboxes)

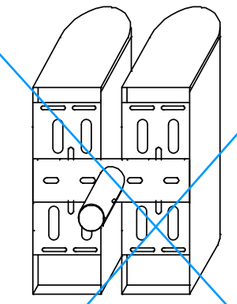


MULTIPLE MAILBOX CONNECTION



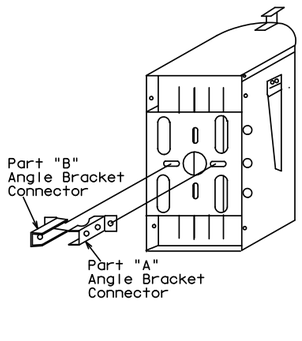
WELDED SINGLE MAILBOX BRACKET CONNECTION

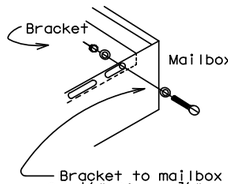
To be used with 2⅜" OD RR or thinwall Steel posts.



WELDED DOUBLE MAILBOX BRACKET CONNECTION WITH ADAPTER PLATE

To be used with thinwall Steel posts. Not to be used with RR posts.



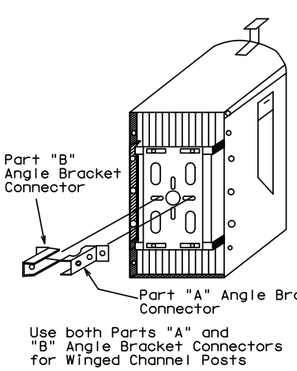


Bracket to mailbox attachment: 6 - ¼" Dia. x ¾" bolt w/ 2 flat washers and nut per each bolt.

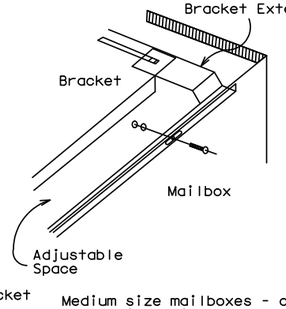
Angle to bracket attachment: 2 - ⅜" Dia. x ¾" bolt with 2 flat washers, lock washer and nut per each bolt.

Angle to 2 - ⅜" Dia. x 2½" bolt with 2 flat washers, lock washer and nut per each bolt.

SMALL MAILBOX



Use both Parts "A" and "B" Angle Bracket Connectors for Winged Channel Posts



Bracket to mailbox attachment: 6 - ¼" Dia. x ¾" bolt w/2 flat washers and nut per each bolt.

Bracket to bracket extension attachment: 2 - ¼" Dia. x ¾" carriage bolt w/ flat washer, lock washer and nut per bolt (4 bolts required if 2 bracket extensions are used).

Angle to bracket attachment: 2 - ⅜" Dia. x ¾" bolt w/2 flat washers, lock washer and nut per each bolt.

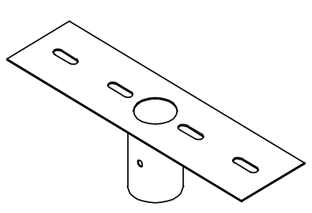
Angle to mailbox support attachment: 2 - ⅜" Dia. x 2 ½" bolt w/2 flat washers, lock washer, and nut per each bolt.

Medium size mailboxes - one extension bracket
Large size mailboxes - two extension brackets

MEDIUM AND LARGE MAILBOXES

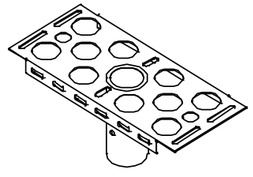
GENERAL NOTES

1. Connecting hardware detailed on this sheet is for the hardware that the Department stocks at the Regional Warehouses. This hardware is available to the contractor only when so stated elsewhere in the plans or specification.
2. Hardware for mounting mailboxes to the support/foundation furnished by industry should be used when shown on the Maintenance Divisions "Approved Products List." Only mailbox hardware that have been crash tested in accordance with NCHRP Report 350, will be on the approved list.
3. Hardware furnished by industry shall be erected in accordance with the manufacturer's recommendation.
4. Bracket and bracket extension shall be constructed of 14 gauge galvanized steel sheet metal.
5. The angles, brackets and adapter plates shall be constructed of 12 gauge galvanized steel sheet metal.
6. Items with evidence of damage to the galvanized coating or wet storage stains (white rust) will not be accepted.



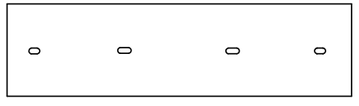
DHT 162323

For use with galvanized thinwall steel posts DHT # 143426 or powder-coated thinwall steel post DHT # 162911.



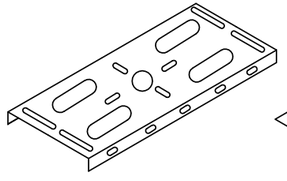
DHT 161443

For use with RCR post DHT # 161442 or galvanized thinwall steel post DHT # 143426 or powder-coated thinwall steel post. DHT # 162911.



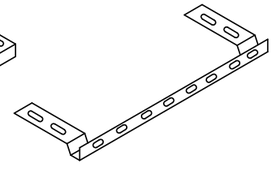
DHT #3789

Used for mounting two Mailboxes on the same post.



DHT 148939

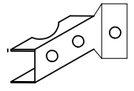
Mailbox Bracket



DHT 148938

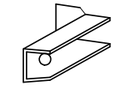
Used for extending 6" wide bracket to attach larger mailboxes.

Bracket Extension



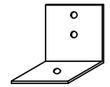
DHT 159489

Part "A" Angle Bracket Connector



DHT 159490

Part "B" Angle Bracket Connector



DHT 2917

Angle Bracket For Temporary Mailbox

Note on DHT Number

See Table of Applicable DHT Numbers on sheet 3 of 3 for DHT description and unit of measure.

HARDWARE AT TXDOT REGIONAL WAREHOUSES

Brackets and adapter plate shown in this section should be available to the Contractor when stated elsewhere in plans or specifications.

FILE: MB-06-(1).dgn

LEVELS DISPLAYED
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48
49 50 51 52 53 54 55 56 57 58 59 60 61 62 63

Standard Plans

Texas Department of Transportation

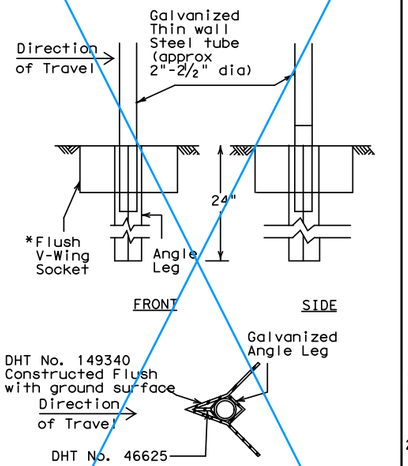
Maintenance Division

MAILBOX BRACKET CONNECTING DETAILS

MB-06(1)

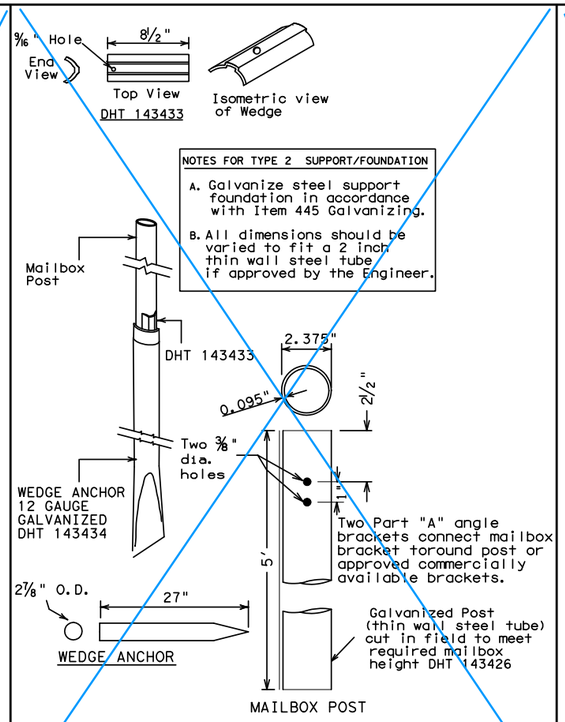
Sheet 2 of 3

FILE: MB06(1).DGN	DN: LJB	CK: JEO	DW:	CK: JG	NEG:
© TxDOT NOVEMBER 2006	DIST	FED REG	FEDERAL AID PROJECT		SHEET
REVISIONS		6			
02/02/05 06/08/05: Added general note numbers 6 & 7. Sheet & title block renumbered. 11/14/05: Deleted sheet4.	COUNTY		CONTROL	SECT	JOB	HIGHWAY



TYPE 1 SUPPORT/FOUNDATION

THIN WALL STEEL TUBE w/ V-LOC ANCHORAGE



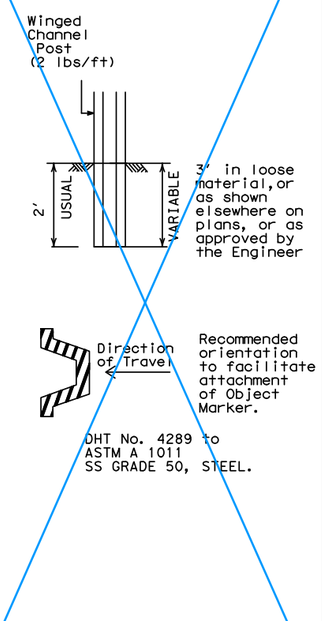
NOTES FOR TYPE 2 SUPPORT/FOUNDATION

A. Galvanize steel support foundation in accordance with Item 445 Galvanizing.

B. All dimensions should be varied to fit a 2 inch thin wall steel tube if approved by the Engineer.

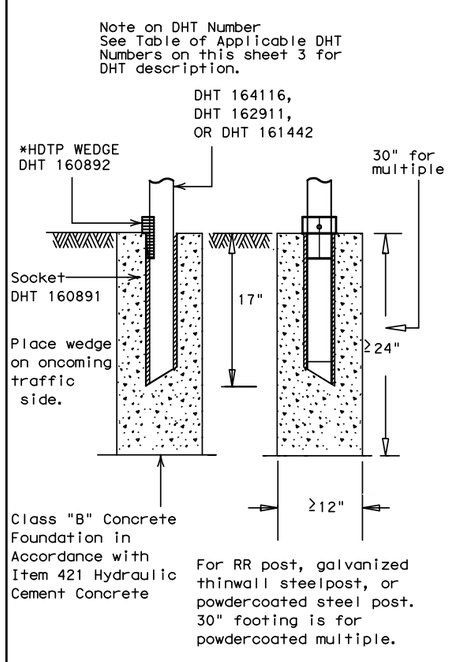
TYPE 2 SUPPORT/FOUNDATION

THIN WALL STEEL TUBE w/ WEDGE ANCHOR SYSTEM



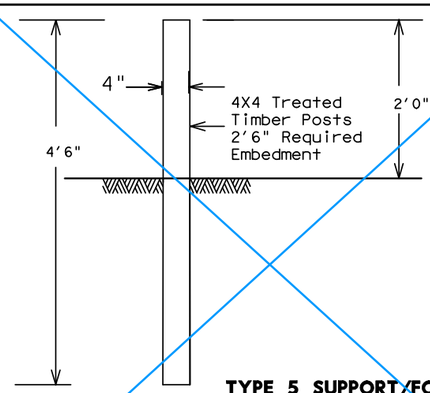
TYPE 3 SUPPORT/FOUNDATION

WINGED CHANNEL POST



TYPE 4 SUPPORT/FOUNDATION

FOR WHITECOATED STEEL POST, MULTIPLE POST, AND RECYCLED RUBBER.

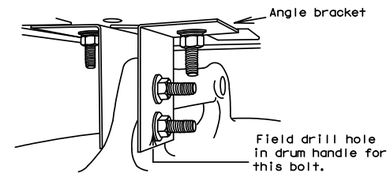


TYPE 5 SUPPORT/FOUNDATION

FOR ONE PIECE MOLDED PLASTIC MAILBOX

ONE PIECE MOLDED PLASTIC MAILBOXES

Molded Plastic Mailboxes shall be installed on 4"x4" treated timber posts only. The use of steel pipe or structural tubing in place of timber post is prohibited.

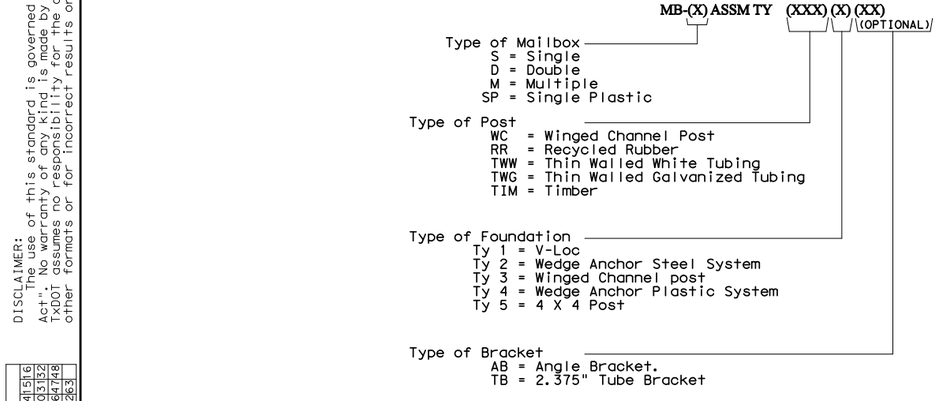


Placed on approved plastic drum as shown in the Compliant Work Zone Traffic Control Devices (CWZTCD).

Existing attachment hardware shall be used unless damaged. Damaged hardware shall be replaced.

TYPE 6 TEMPORARY MAILBOX SUPPORT

CONNECTION DETAIL



*HDTP: High density thermoplastic polyesters

TABLE OF APPLICABLE DHT NUMBERS

DHT NUMBER	DESCRIPTION
	FOUNDATIONS
46625	WEDGE FOR V-WING SOCKET FOR TYPE 1 FOUNDATION
149340	V-WING SOCKET FOR TYPE 1 FOUNDATION
143433	WEDGE FOR TYPE 2 FOUNDATION
143434	ANCHOR FOR TYPE 2 FOUNDATION
160891	SOCKET FOR TYPE 4 FOUNDATION
160892	WEDGE FOR TYPE 4 FOUNDATION
	POSTS
4289	WINGED CHANNEL MAILBOX POST
149339	MULTIPLE MAILBOX POST (GALVANIZED TUBING)
164116	MULTIPLE MAILBOX POST (WHITE COATED)
161442	RECYCLED RUBBER POST. FOR SMALL MAILBOX ONLY
143426	THIN-WALL GALVANIZED STEEL TUBE 2.375" OUTER DIAMETER
162911	THINWALL WHITE STEEL TUBE 2.375" OUTER DIAMETER
	REFLECTIVE SHEETING
161812	REFLECTIVE SHEETING FOR EMERGENCY LOCATION NUMBER PANEL
	CONNECTING HARDWARE
2917	ANGLE BRACKET USED FOR TEMPORARY MAILBOX SUPPORT
3789	PLATE FOR DOUBLE MOUNTING OF MAILBOXES
148939	BRACKET FOR ATTACHING SMALL OR MEDIUM SIZE MAIL BOX
148938	EXTENDER TO BRACKET FOR ATTACHING LARGE MAILBOX
159490	ANGLE BRACKET PART B
159489	ANGLE BRACKET PART A
162323	BRACKET FOR DOUBLE MOUNTING OF MAILBOXES ON THINWALL STEEL POST, GALVANIZED OR POWDERCOATED.
161443	BRACKET FOR ATTACHING MAILBOX TO RECYCLED RUBBER POST AND TO MULTIPLE WHITE MAILBOX POST

DOUBLE AND LARGE MAILBOXES MUST BE ON STEEL POST.

GENERAL NOTES

1. Erect post plumb or vertical.
2. When galvanized part is required galvanize in accordance with Item 445.
3. Type 1, 2, 3, or 4 supports or foundation can be used for single or double mailbox installations. The RCR post should be used only for a single installation with a small mailbox. The Type 5 support/foundation is used for the single molded plastic mailbox. The Type 4 support/foundation is used for the 2.375" O.D. RCR post, thin wall steel post, and white multiple mailbox post.
4. The Type 1 support/foundation can be used for a multiple mailbox mount. DHT 149339
5. The Type 4 support should be used with thin wall steel pipe for the medium, large and double mailbox installations.
6. Use a concrete footing as shown or when directed. Concrete footing will be required when soils do not hold the support/foundations in a stable condition.
7. A 2.375" O.D. galvanized thin wall posts can be used for Ty 1, 2 & 4.
8. When specified elsewhere in the plans, a 2.375$^{5}/_{32}$ O.D. galvanized thin wall powder coated white post DHT-162911 should be used for the medium, large, and double mailbox installations.

LEVELS DISPLAYED
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48
49 50 51 52 53 54 55 56 57 58 59 60 61 62 63

FILE: MB-06-(1).dgn

Standard Plans

Texas Department of Transportation

Maintenance Division

MAILBOX SUPPORT/ FOUNDATION

Sheet 3 of 3

MB-06(1)

FILE: MB06(1).DGN	DN: JEO	CK: LJB	DW: JEO	CK: JG	NEG:
© TxDOT NOVEMBER 2006	DIST	FED REG	FEDERAL AID PROJECT		SHEET
		6			
	COUNTY		CONTROL	SECT	JOB	HIGHWAY

02/02/05 REVISIONS
06/08/05: Added general note numbers 6 & 7. Sheet & title block renumbered. 11/14/05: Deleted sheet4. 08/03/06: Added DHT table, Mailbox descriptive codes and bid items.